

Figure 1

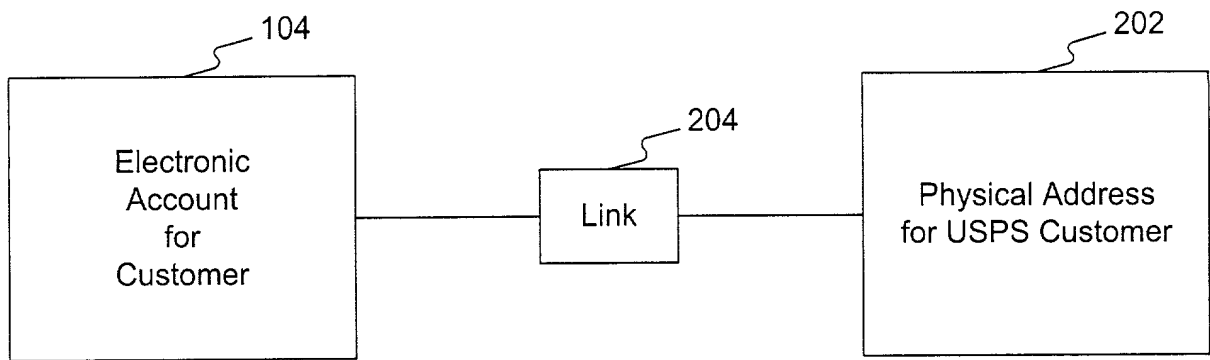


Figure 2

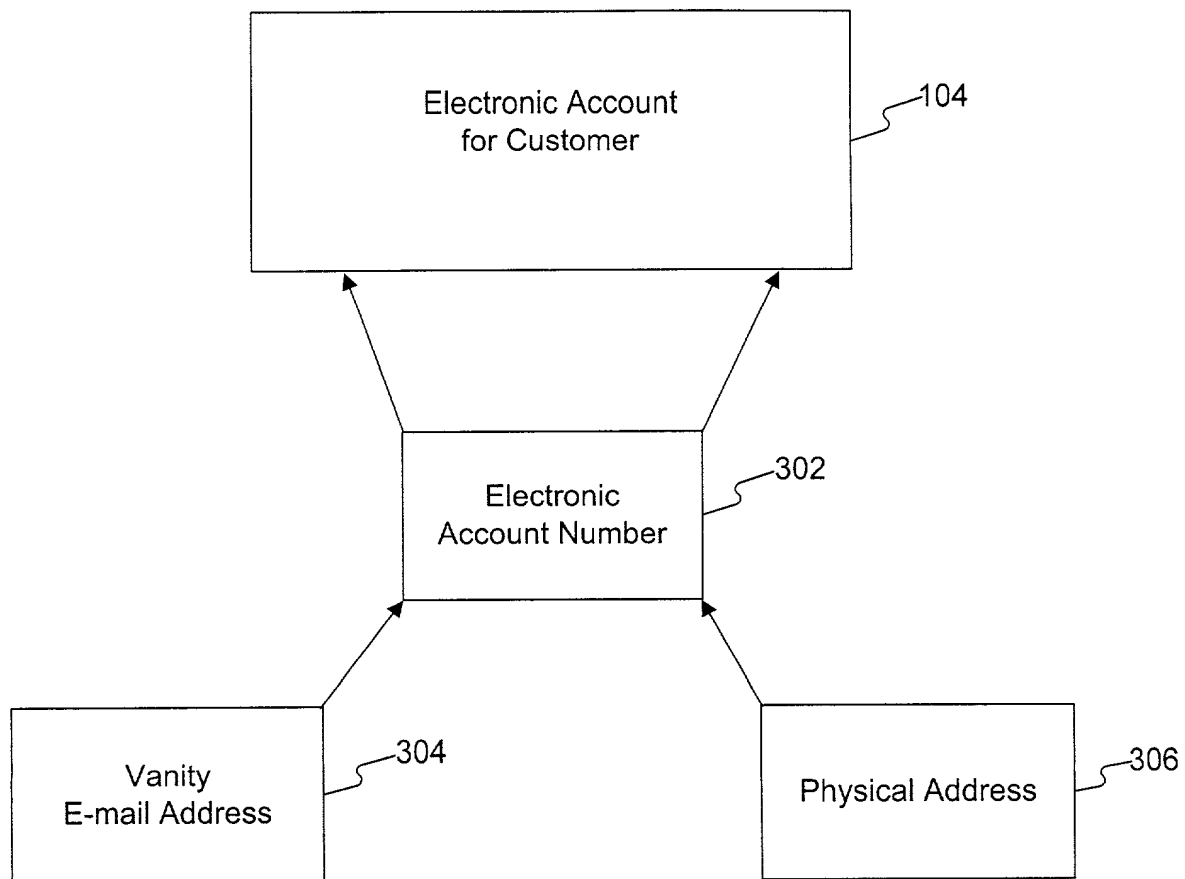


Figure 3

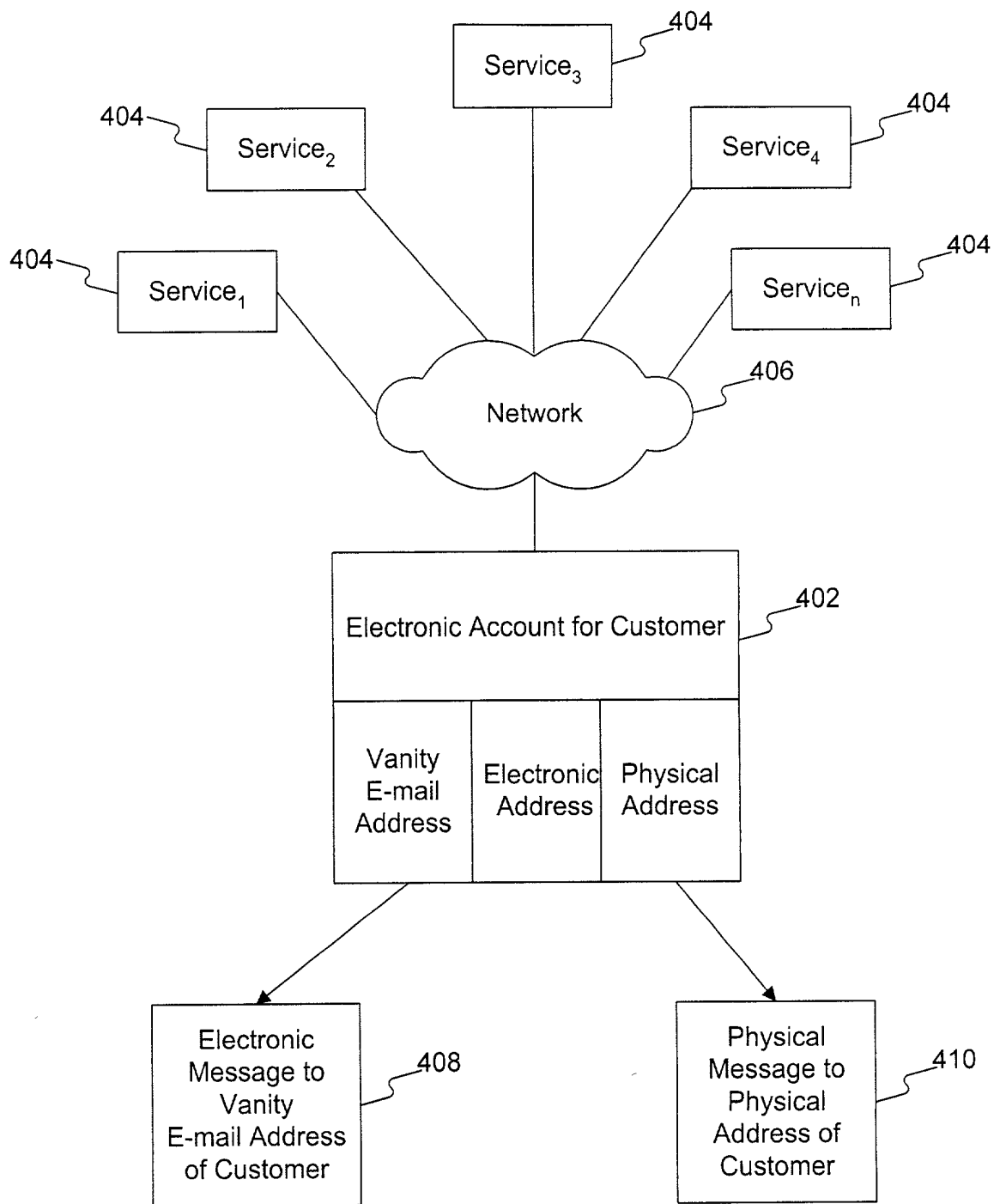


Figure 4

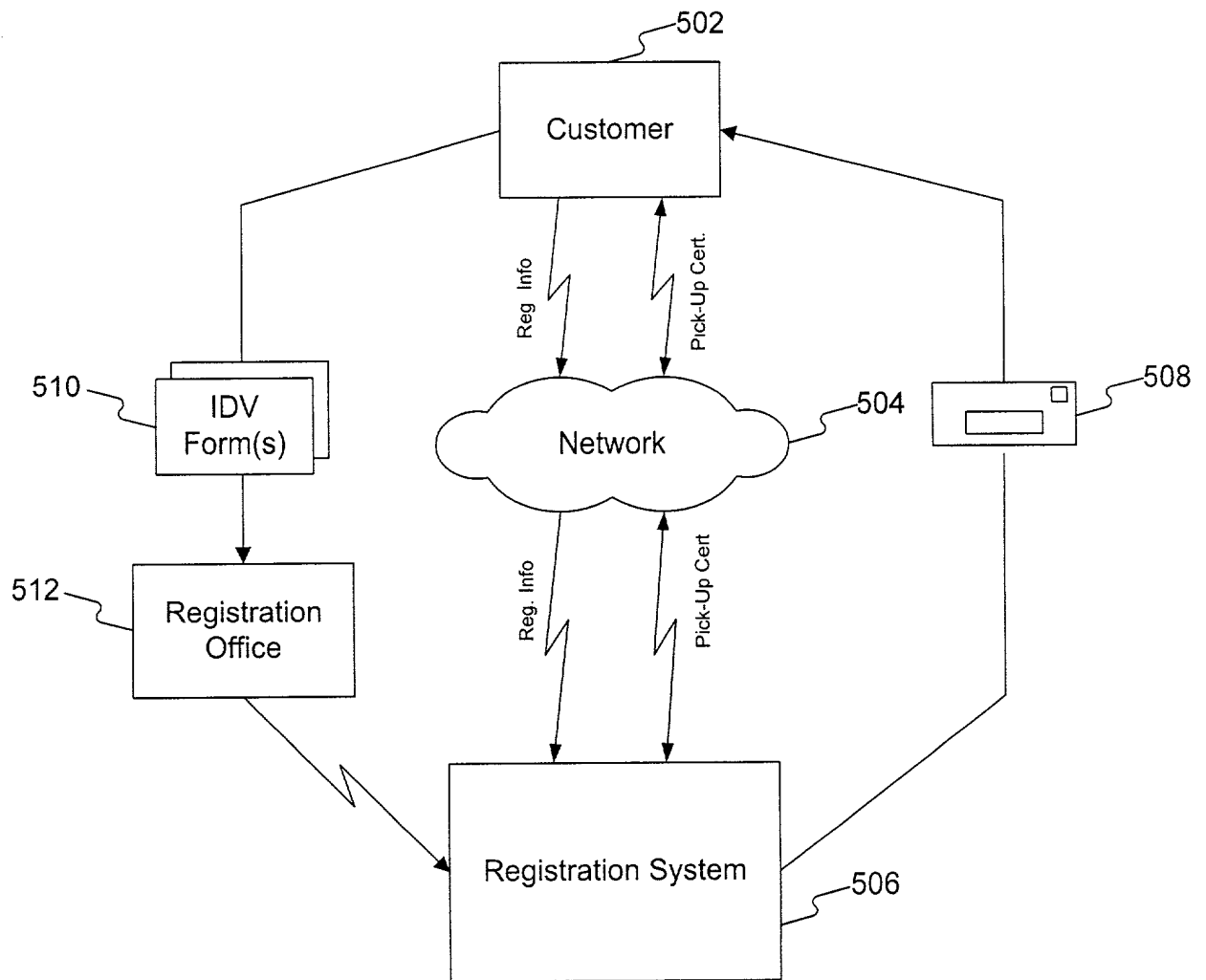


Figure 5A

SECURE ELECTRONIC MAILBOX

004AA0A0AD2T30008

Identity Validation Form

STEP 1

Instructions Verify all the information listed in the Identity Validation Documents section below. If you find any discrepancy between information listed on this form and your actual Identity Validation Documents, please call 1-800-344-7779 and speak with a customer care agent. If all information is accurate, take the Identity Validation Documents along with this form to the post office listed below on or before 01/28/2000. You must complete the in-person validation before this date, or you will be required to restart the application process. Please do not sign, deface, bend, or otherwise mark this form except in the presence of a postal clerk at the designated post office.

For Official USPS Use Only

Place Round Date Stamp Here

Closest Post Office

UNITED STATES POSTAL SERVICE
458 LENFANT PLZ SW
WASHINGTON DC 20024-2114

Residential Address

|||||
MR. WILLY WONKA
3 2 CENTRAL PARK W APT 14U
NEW YORK NY 10025-5868

USPS EMAIL ADDRESS: demotest200

Identity Validation Documents Postmaster: The customer must provide the identity documents listed below. Verify that the bearer presents all information exactly as it appears on this form. If there is any discrepancy, this form is null and void.

DATE OF BIRTH: 01/01/1961

Validate

☐

PHONE BILL: ☐

Validate

DRIVERS LICENSE: 987654

NY

☐

EXPIRATION: 01/01/2001

☐

Oath and Signature I certify that the statements made by me are true and complete. I understand that furnishing false or misleading information on this form or omitting material information requested on this form may subject me to criminal sanctions (including fines and imprisonment) and/or civil sanctions (including multiple damages and civil penalties). (18 U.S.C. 1001 and 31 U.S.C. 3802)

Signature of Applicant: _____

Date: _____

Privacy Statement The collection of this information is authorized by 39 U.S.C. 403 and 404. This information will be used to provide the applicant with Secure Electronic Mailbox service requested. As a routine use, the information may be disclosed to the U.S. Department of Justice or to other counsel representing the Postal Service, or may be disclosed in a proceeding before a court or adjudicative body before which the Postal Service is authorized to appear; to an expert, consultant, or other individual who is under contract to the Postal Service to fulfill any agency function, but only to the extent necessary to fulfill that function; to a Federal Records Center for storage prior to destruction.

Warning The furnishing of false or misleading information on this form or omission of material information may result in criminal sanctions (including fines or imprisonment) and/or civil sanctions (including multiple damages and civil penalties) (18 U.S.C. 1001).

01 / 08 / 2000



Customer Copy - Retain For Your Records.

Figure 5B

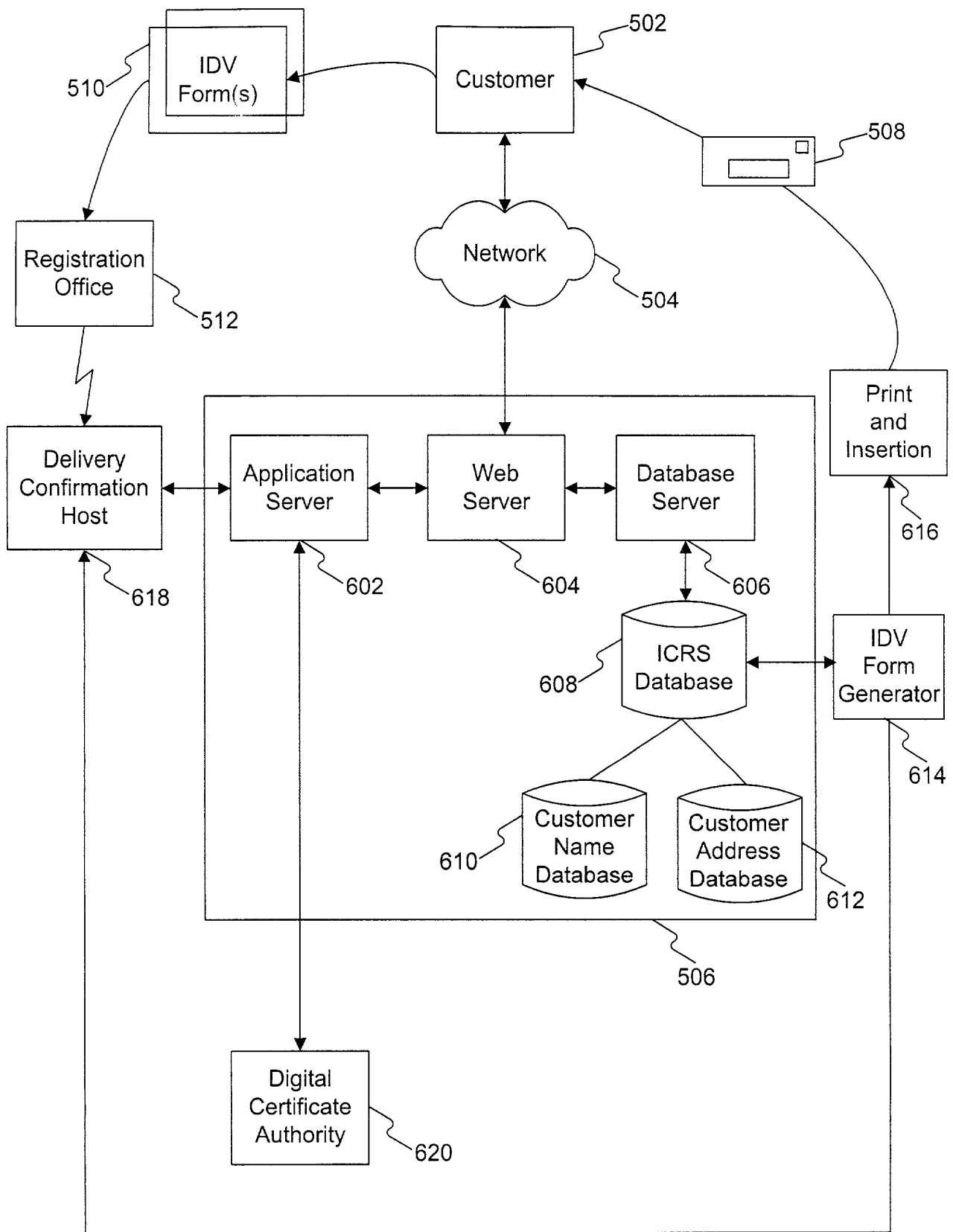


Figure 6

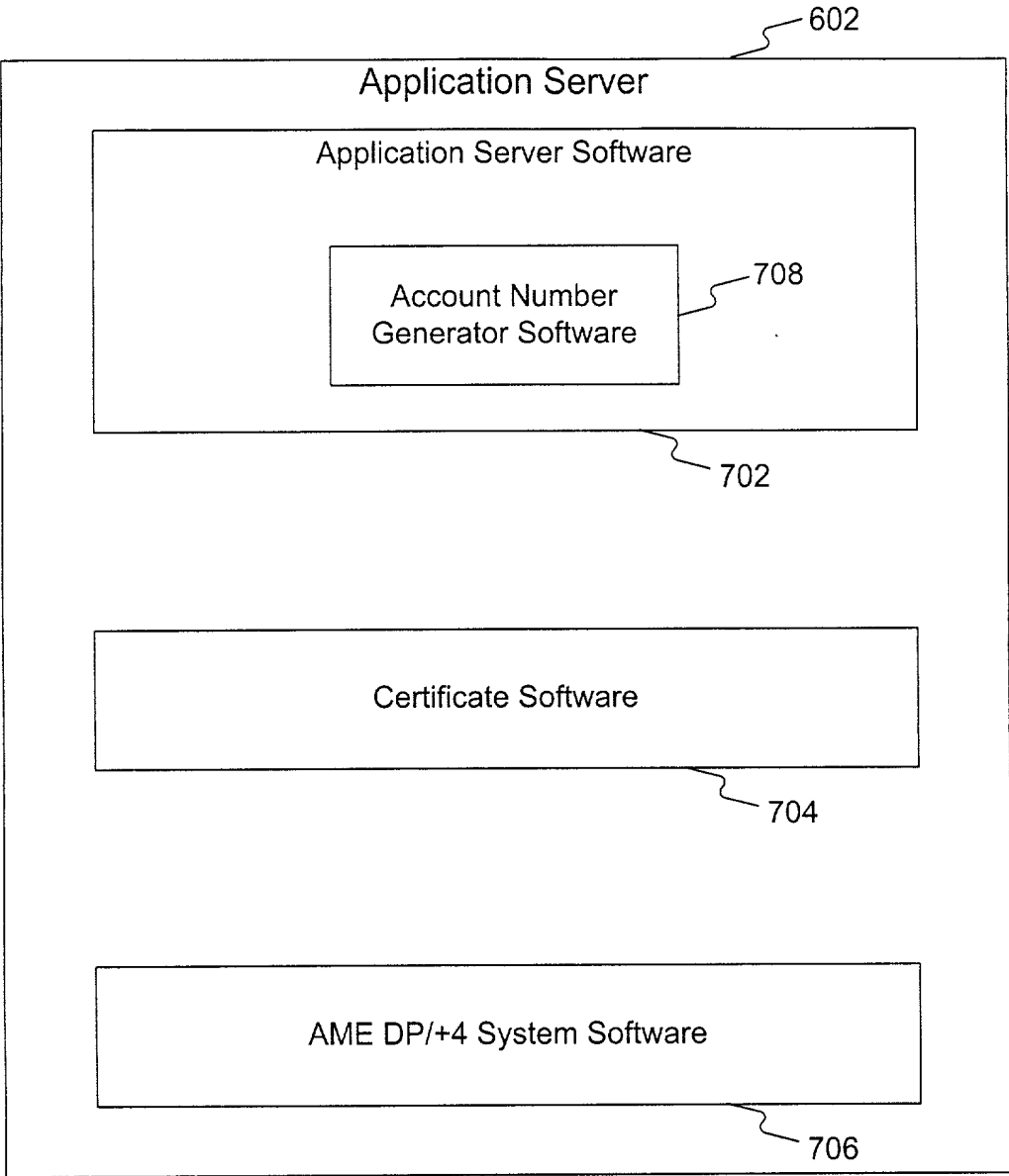


Figure 7

AAANAAANAC	802
AAANAANAAC	
AAANANAAAC	
AANAAANAAC	
AANAANAAAC	
ANAAANAAAC	

Figure 8

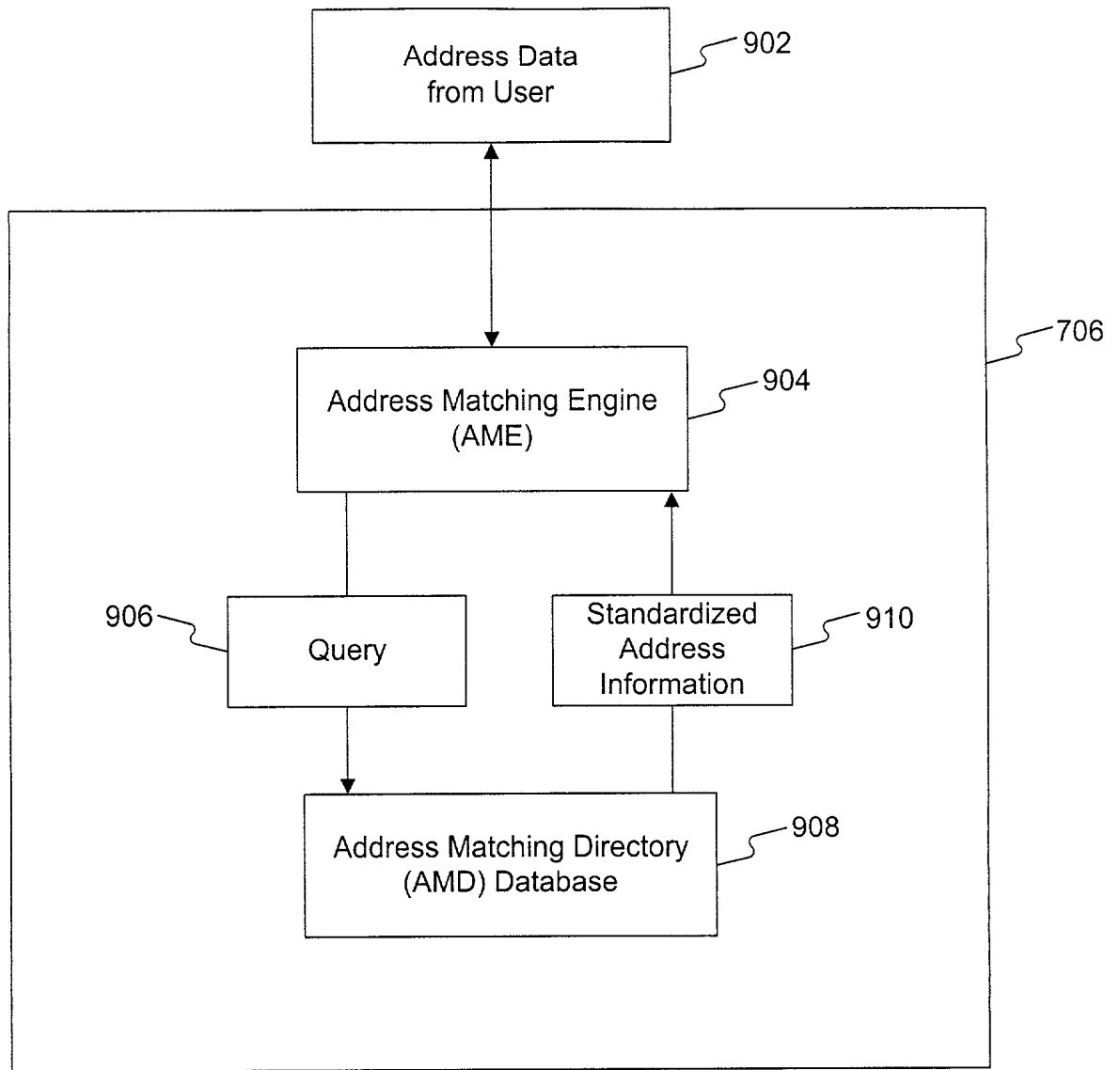


Figure 9

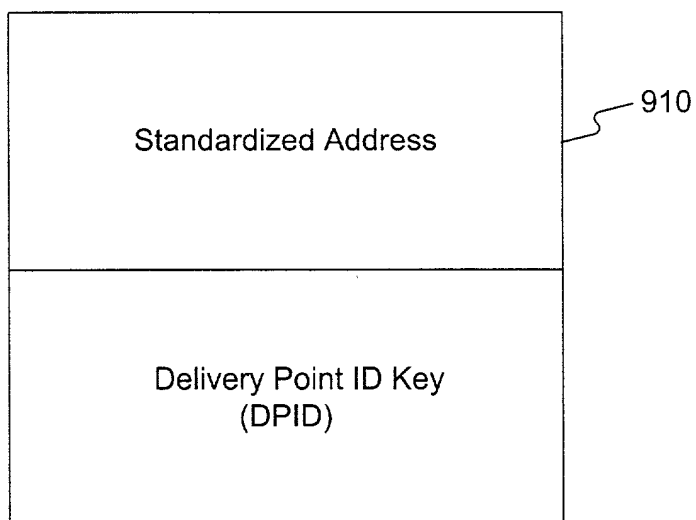


Figure 10

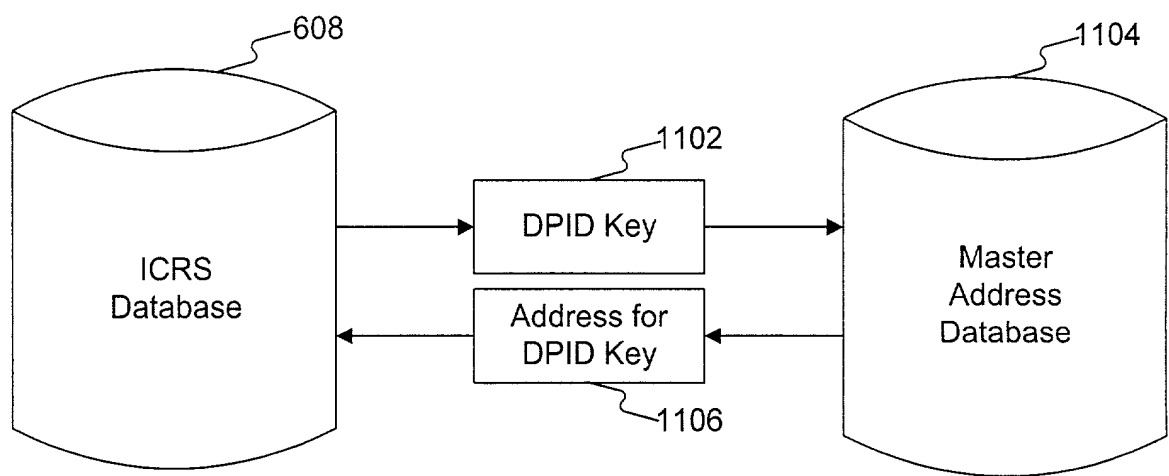


Figure 11A

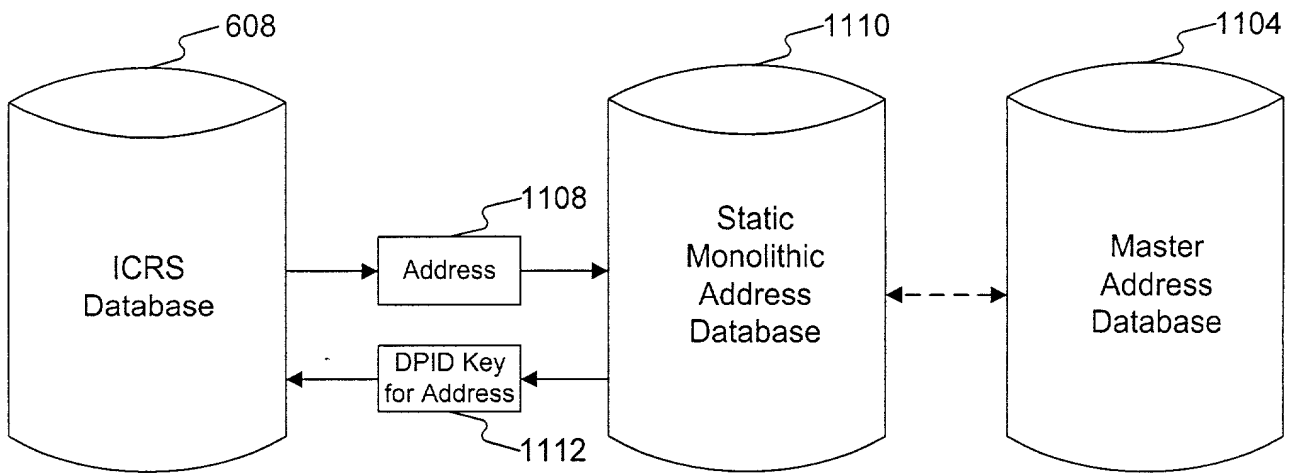


Figure 11B

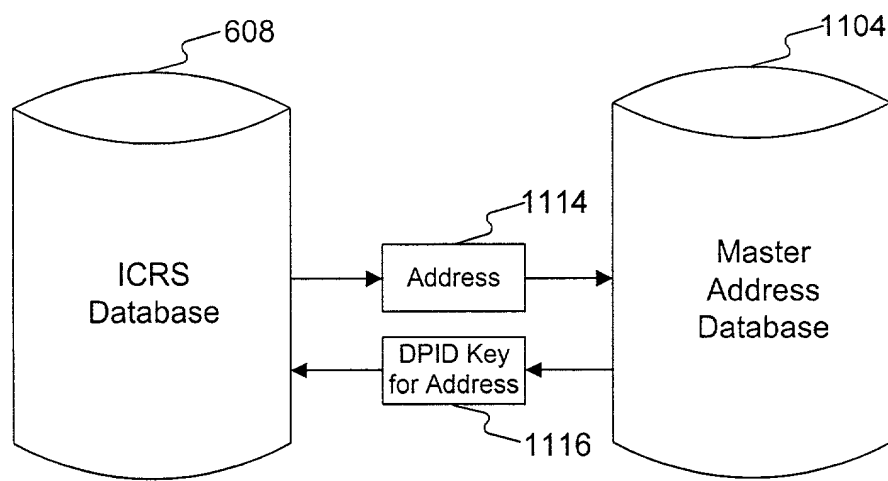


Figure 11C

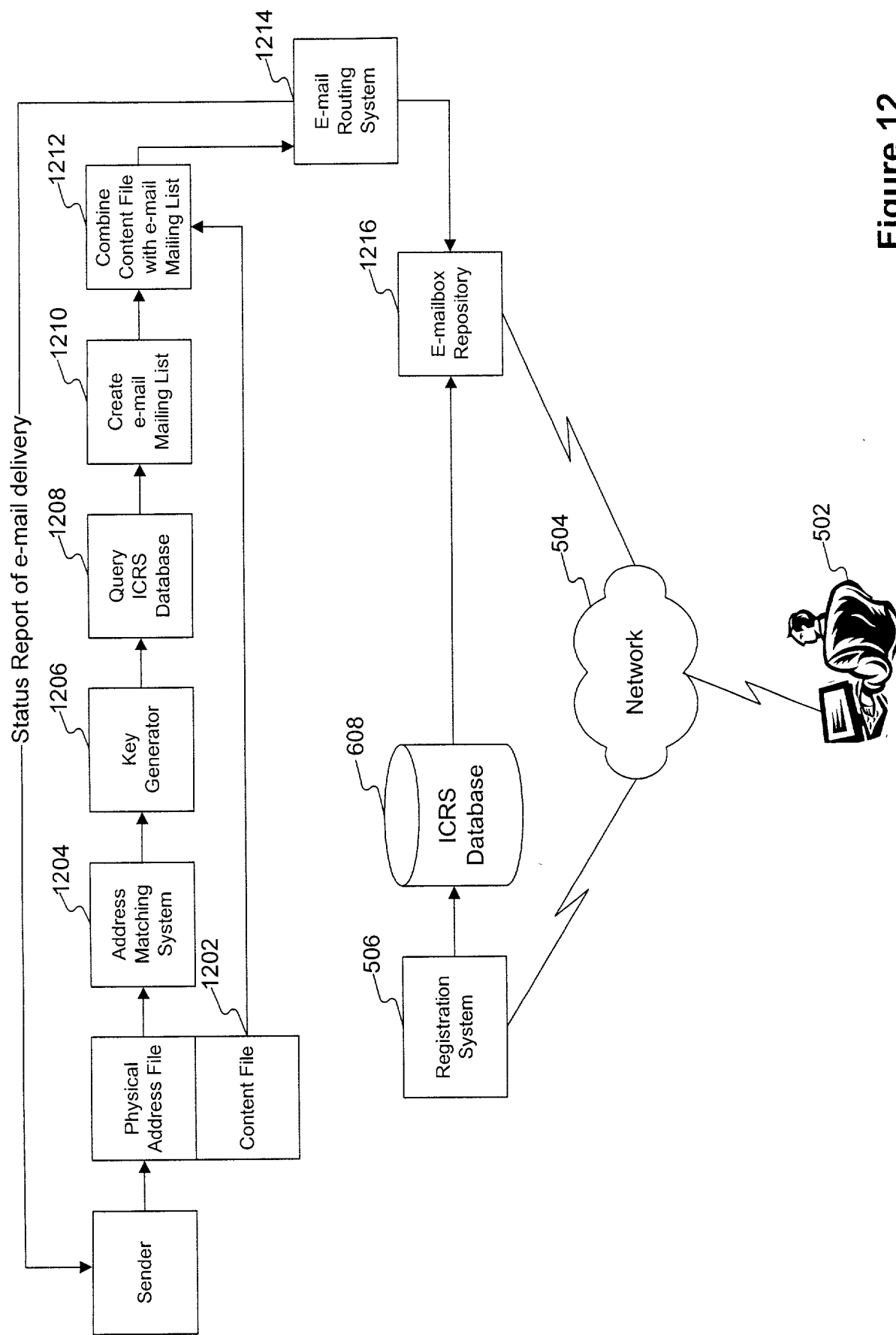


Figure 12

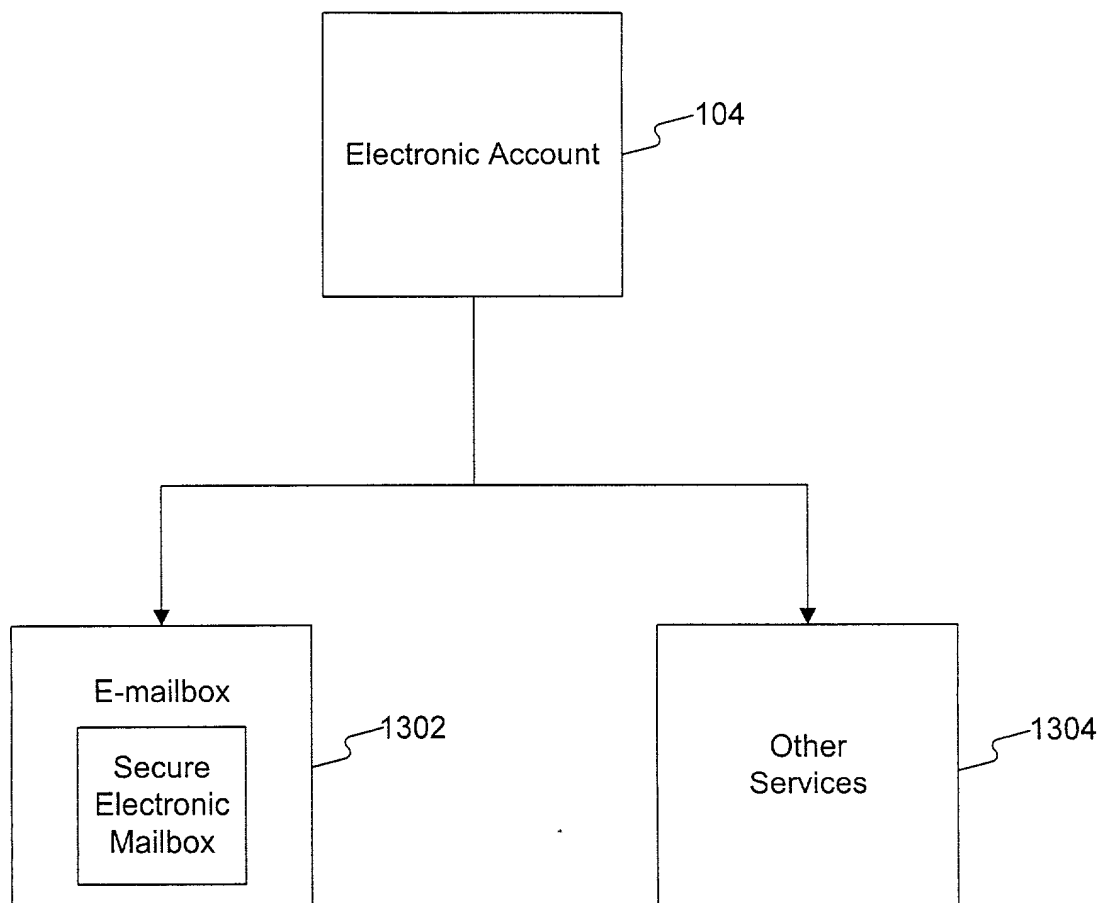


Figure 13

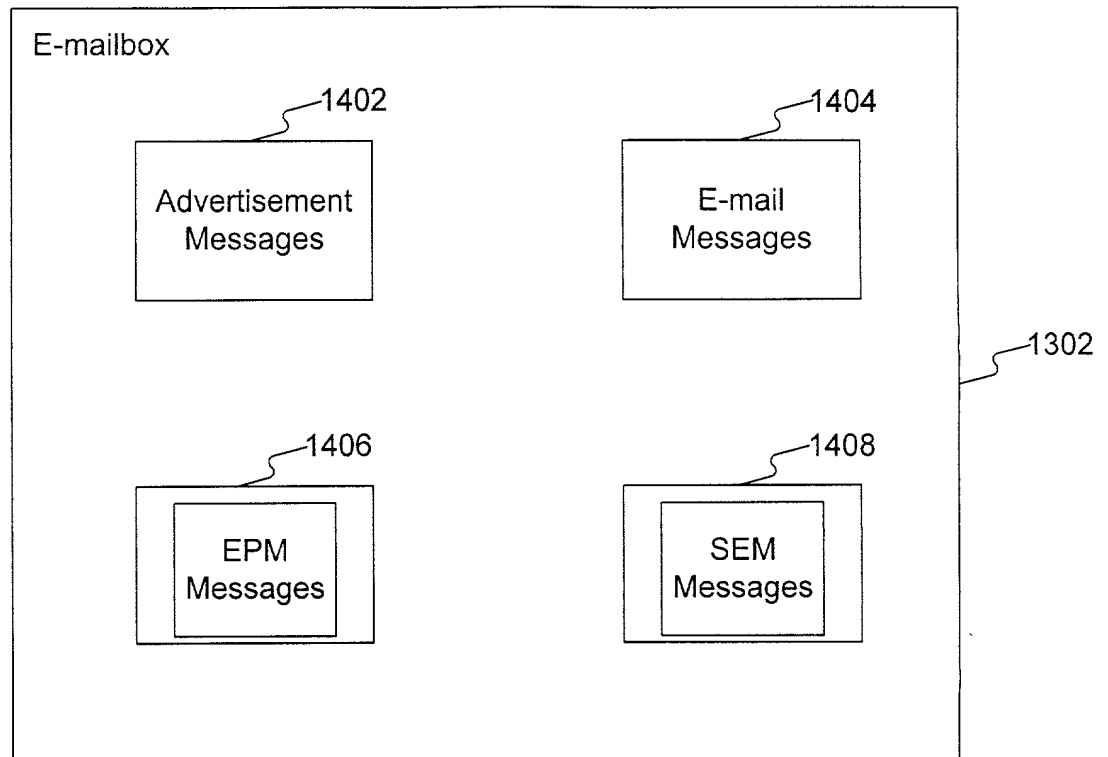


Figure 14

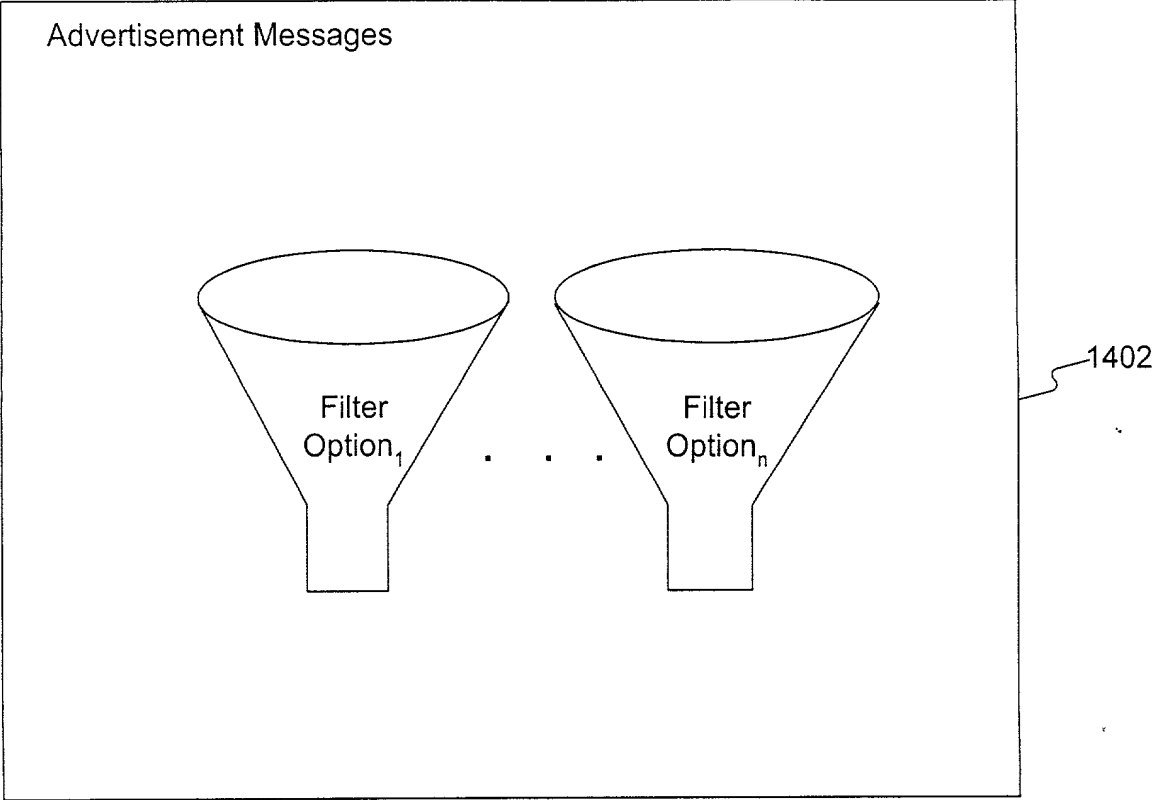


Figure 15

Downloaded from www.researchgate.net

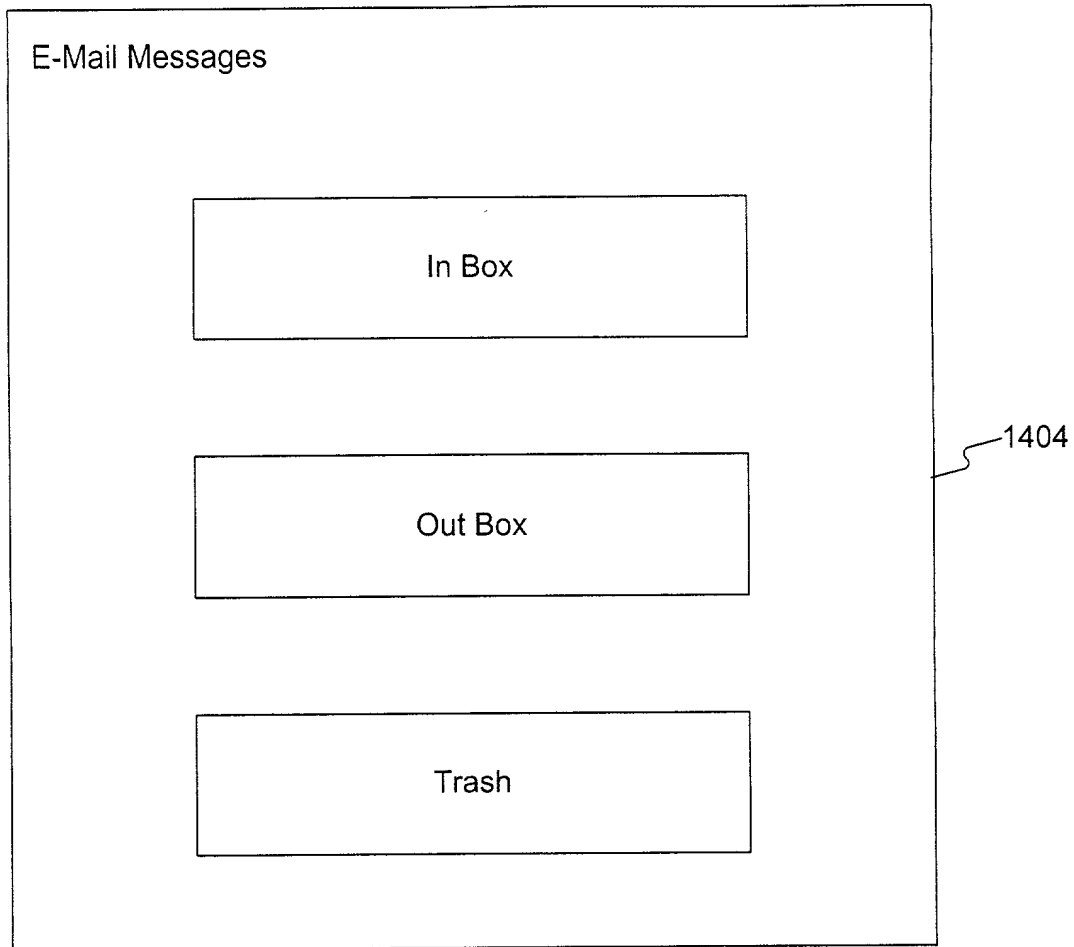


Figure 16

Patent 9,260,860

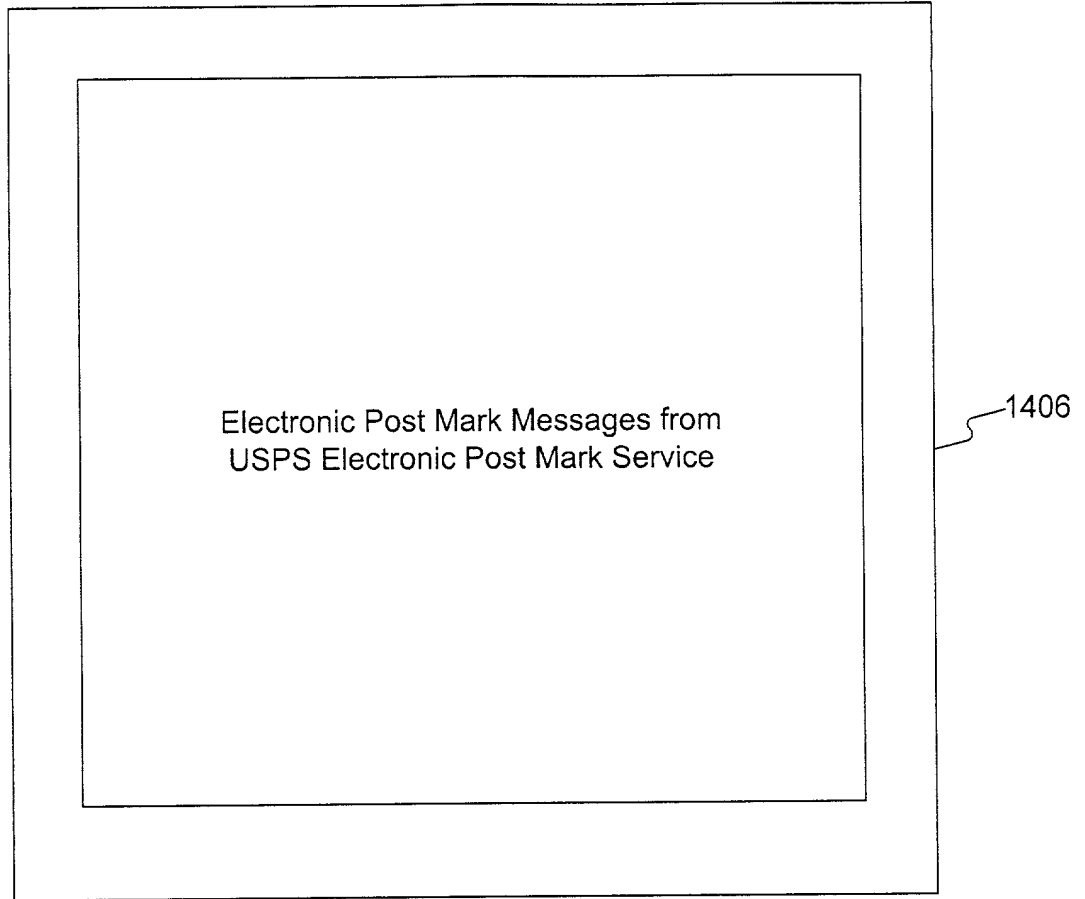


Figure 17

USPS Secure Electronic Mailbox Service

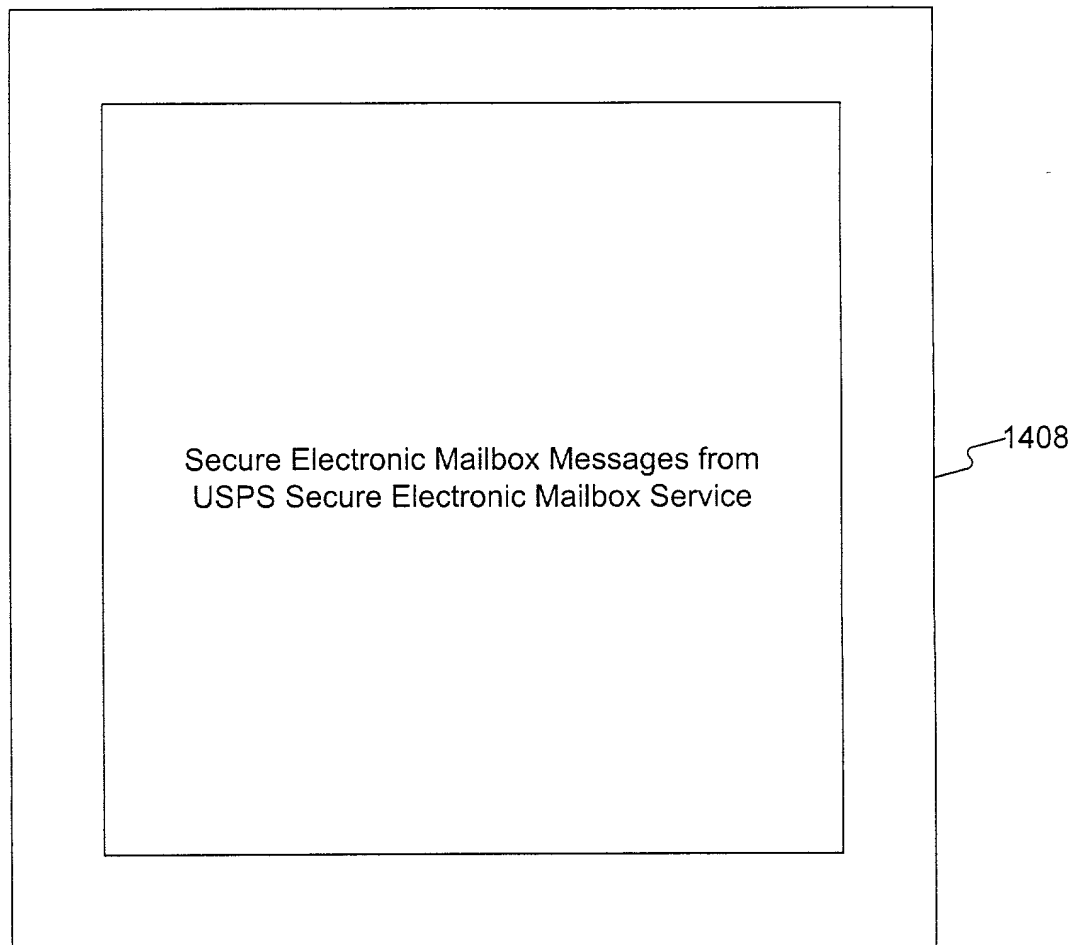


Figure 18



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SECURE ELECTRONIC MAILBOX

Overview

The Secure Electronic Mailbox (SEM) will combine many of the mail services you already receive with the speed and accessibility of the World Wide Web. You can receive your bills, correspondence, catalogues, statements, etc., at a secure Web site.

The United States Postal Service SEM will provide a safe, secure way to transport electronic messages, bills, etc., as a trusted third party. The SEM will incorporate digital certificates as a means of authenticating authorized access of mailbox content. Certificates will be given at the time of SEM registration. The same certification could be used to authenticate the user for other Internet-based applications such as access to government services. The SEM will offer these services:

- A unique, permanent email address
- User-friendly mailbox for organizing all incoming messages
- The ability to receive targeted ad mail
- Electronic bill paying services that allow you to schedule your payments
- Trusted third party handling of mailbox contents
- Secure login that ensures only you have access to your mail
- The postmark on your mail verifies its integrity
- SEM is the gateway to secure on line ordering, completion, and transmission of government documents and forms

Figure 19A

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SECURE ELECTRONIC MAILBOX

Application Procedures

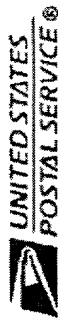
Please follow the instructions below to register for your SEM. There are three steps the first is an online process, the second is an in-person validation, and the third is an online final activation.

NOTE: The computer to which you download your digital certificate is the only computer with which you can access your secure SEM.

STEP 1. ONLINE APPLICATION
The first step in the process is to complete and submit our user-friendly application form. All the following information will be required, so you may want to have it handy before you begin.

- Full name
- Date of birth.
- Residential address
 - PO box, general delivery, and CMRA addresses are not acceptable.
- Mailing address (only required if different from residential address).
 - PO boxes and general delivery are acceptable; CMRA addresses are not
- Email name choice.
 - A primary name containing 3 - 20 alphanumeric characters (no special characters such as hyphens, dots, asterisks, etc., allowed).
- Identity document(s)
 - You must provide two forms of identity from drop-down lists provided on the online application. One must contain your photograph and a traceable control number: driver's license, state ID, passport, or military ID. The second must contain your name and residential address as they appear on this application.
- Telephone number(s).
 - (Work phone number not required)

Figure 19B



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- Shared secret.
A 3-word password combination including an adjective, noun, and verb that you select from drop-down lists. We strongly suggest that you protect your shared secret by writing it down and storing it in a secure place. You will be required to enter this shared secret during final activation to download your Digital Certificate.
- Password.
The safest passwords are at least eight characters long, include both letters and numbers, and contain no words from a dictionary. We strongly suggest that you protect your password by writing it down and storing it in a secure place. Do not give it to others because doing so would allow them to use your certificate to impersonate you.

After you complete the online registration, an Identity Validation Form (IDV) will be mailed to you within 24 hours.

STEP 2 IN-PERSON IDENTITY VALIDATION

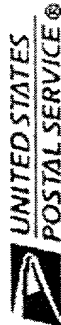
When you receive the *Identity Validation Form* in the mail, take it and the two forms of identification you selected online to the post office designated on the *Identity Validation Form*. Please remember that you must complete the in-person identity validation within 20 days of completing Step 1, or your temporary mailbox (SEM) will be considered void, and you will be required to restart the application process.

STEP 3. FINAL ACTIVATION

Approximately 48 hours from the date you complete the in-person identity validation, you can check the status of your mailbox account by following these steps:

1. Go to usps.com and click Activation Status.
2. Enter your primary email address and shared secret.
3. If your mailbox account is ready for activation, you will be given instructions for retrieving and using your digital certificate.

Figure 19C



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SECURE ELECTRONIC MAILBOX

If you need help or additional information during this application process, call your USPS customer care agent at 1-800-344-7779.

Privacy Statement

THANK YOU for using the Postal Service's Secure Electronic Mailbox (SEM) and reviewing our privacy policy. The USPS is acutely aware and sensitive to the privacy concerns of our subscribers. Your privacy is of great importance to us, and the SEM has been developed with that in mind. The USPS will collect personal information from users of the SEM but will do so only to authenticate the user's identity, thereby providing trust and integrity in its public certification services. If you have any questions regarding this Privacy Policy, please call 1-800-344-7779

NOTE: The SEM contains links to other web sites. The USPS makes no representations with respect to the privacy practices, privacy statements, or otherwise regarding such other web sites.

Use and Retention of Personal Information:

- Personal identifiable information is collected to bind the user's identity to a public/private key pair which is necessary to access SEM. The information is also used to link the subscriber's email address with a physical mailing address that will be kept confidential.
- When we ask you to provide personally identifiable information in order to take advantage of a postal product or service and we maintain that information, you will review a Privacy Act statement before transmission of your information to us telling you the purposes for collecting the information and the potential uses of it.
- USPS does not otherwise disclose, sell, or make available personal information.

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SECURE ELECTRONIC MAILBOX

- From time to time, USPS may notify subscribers of new products, announcements, and upgrades. If you would like to opt-out of being notified in this way, please call 1-800-344-7779.

Security — Detection of Unauthorized Intrusions:

For site security purposes and to ensure that this service remains available to all users, this government computer system employs software programs to monitor network traffic to identify unauthorized attempts to upload or change information or otherwise cause damage. Except for authorized law enforcement investigations, no other attempts are made to identify individual users or their usage habits.

Significant Actions When Information Enters a System of Records:

Some of our web sites allow you to purchase postal products and services or request information electronically. In those instances, we will collect the information needed to fulfill your order or request, just as though your order or request had been made on paper. That information will be maintained and protected in accordance with the Privacy Act, 5 U.S.C. 552a, which means that it will be secured in transit to us and upon receipt. Before transmitting the information to us, you will be given a Privacy Act statement that tells you the purpose for collection and the potential disclosures that may be made of the information you provide. We will let you know those circumstances in which it may be necessary to make a disclosure, such as to fulfill your order, to a government agency for law enforcement or other official need. Under the Privacy Act, we are barred from otherwise disclosing the information.

System Requirements

An Internet connection through Netscape version 4.05, 4.06, 4.5, 4.6, or 4.7 or higher is required for this demonstration. For optimum readability, your monitor's resolution should be set at 800 x 600.

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SECURE ELECTRONIC MAILBOX

Certification Practice Statement and Security Policy

The Certification Practice Statement controls the provision and use of the USPS's certification services, including certificate application, application validation, and certificate issuance, acceptance, use, suspension, and revocation.

The USPS Secure Electronic Mailbox (SEM) provides a secure environment for customers to conduct business on the Internet. The USPS has taken strong measures to protect the security of your personal information. This site uses 128-bit Secure Socket Layer (SSL) encryption technology, which is the best currently available. With SSL, all information transmitted across the Internet between you and the USPS is encrypted or scrambled so that it cannot be intercepted, tampered with, or misused by any third party.

The SEM also incorporates public key technology, which enables digital signature and user digital certificates. A digital signature provides the additional security of authentication. Both sender and receiver may wish to verify the identity of the other party. In the digital world, this can be achieved using public key digital certificates to create digital signatures. Certificates bind individuals to their private key, which can be authenticated using a corresponding public key.

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SECURE ELECTRONIC MAILBOX

Individual Information

STEP 1

Please provide the information below. All information will be held in the strictest confidence in accordance with our Privacy Statement.

Name	Mr. <input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	Select One <input type="text"/>
	Title	First	MI	Last	Suffix Title
	Month <input type="text"/>	Day <input type="text"/>	Year <input type="text"/>		
	Date of Birth				
	<input type="text"/>		<input type="text"/>		
	Home Phone		Work Phone		

USPS Email Address Selection

Please enter an email address with 3 to 20 alphanumeric characters and a password with 8 to 20 characters (no special characters such as hyphens, asterisks, ampersands, etc., are allowed).


Email Choice	<input type="text"/>	<input type="text"/>	<input type="text"/>
	First Choice	Second Choice	Third Choice
	<input type="text"/>	<input type="text"/>	
	Password	Re-enter Password	

Please choose your shared secret by selecting a word from each drop-down box below. Then, write it down and secure it in a safe place. You will be required to enter this shared secret during Step 3 to download your Digital Certificate.

Shared Secret	Select One <input type="text"/>	Select One <input type="text"/>	Select One <input type="text"/>
	Adjective	Noun	Verb

Submit Clear

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SECURE ELECTRONIC MAILBOX

USPS Email Address Selection

STEP 1

We're sorry. The email addresses you have chosen are unavailable. May we make a few suggestions?

☐ demotest28

☐ demotest29

☐ demotest30

☐ demotest31


☐ demotest32

☐ demotest33

☐ Try another entry

Submit

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Secure ELECTRONIC MAILBOX

Address Information

STEP 1

Please select an address type before entering your address information. Click here for further information on [Address Type](#).

Street

Address Type

Residential Address

House No.

Street Name

City

State

Zip

Select One

Apt/Ste ID and Number


Is your mailing address the same as your residential address?

☒ Yes ☐ No

Submit

Clear


Figure 19I



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SECURE ELECTRONIC MAILBOX

Identity Validation Information

STEP 1

Please select the two forms of identification you will use for your in-person identity validation. One must contain a photograph and a traceable control number. The other must contain your name and address as they appear on this application.

Photo ID

Control No.

Re-enter Control No.

Month Year

Expiration Date

State (Drivers License & State ID only)

Secondary ID

Submit Clear

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SECURE ELECTRONIC MAILBOX

Information Review

STEP 1

Please review the following information. To make changes, check the box next to the sections you wish to modify, then click the Edit button. If all the information is correct, we highly recommend you print this information and store it in a secure place. Click Print Info for instructions on printing this information.

USPS Email Address:

DEMOTEST33

Name:

MR. JOHN DOE

Home Phone:

(901) 681 - 4650

DOB:

Feb 3, 1980

Password:

BOGART009

Shared Secret Code:

GOOEY INFINITY LED

Residential Address:

4167 HALLVIEW DR
MEMPHIS TN 38128 - 3214

Mailing Address:

(Same as Residential Address)

Driver's License No.:

123456

Exp Date:

Feb 2001

State:

TN

Secondary ID:

TELEPHONE BILL

Edit

Print Info

Continue

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SECURE ELECTRONIC MAILBOX

Public Key/Private Key Setup

STEP 1

Your browser is about to generate a private key for you that will be installed on your computer. It will be used along with the Digital Certificate you will download in Step 3 to identify you to the Secure Electronic Mailbox (SEM).

Your browser uses a complex mathematical operation to generate your Private Key. It may take several minutes to complete. If you interrupt this process, it will not create your key, and you will be required to restart this process from the beginning.

If your browser allows encryption strength options, we recommend you set it to the highest grade possible. The various encryption strengths supported by your browser will appear in the drop-down box below.

512 (Low Grade)

It is strongly recommended that you protect your private key with a password. If you do not want a password, then leave the Password field blank. The safest passwords are at least eight characters long, include both letters and numbers, and contain no words from a dictionary. Passwords are particularly important if you are in an environment where other people have access to your computer, either physically or over a network. Do not give others your password because doing so would allow them to use your certificate to impersonate you.

Continue Quit

Figure 19L

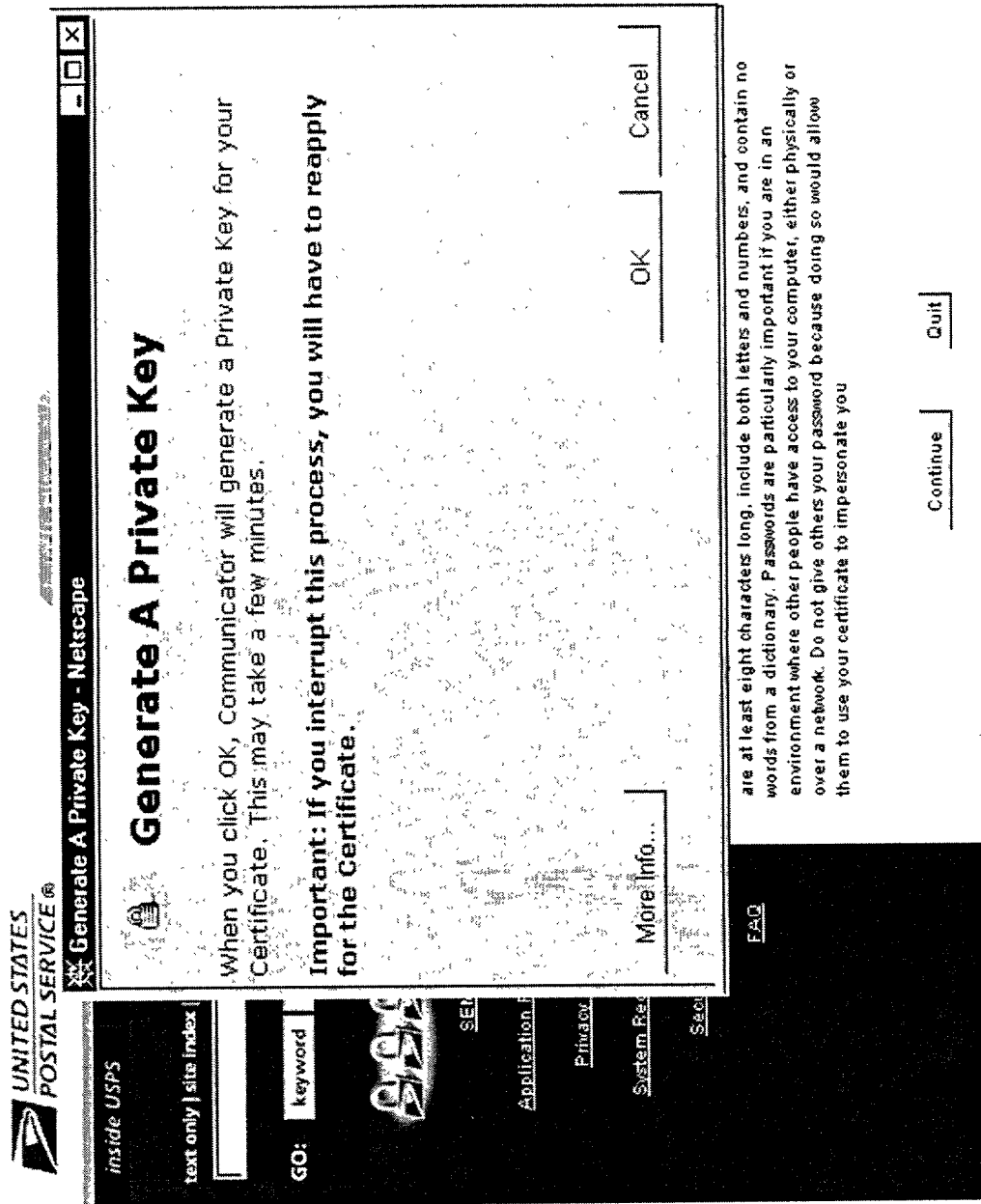



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Setting Up Your Communicator Password - Netscape



Setting Up Your Communicator Password

It is strongly recommended that you protect your Private Key with a Communicator password. If you do not want a password, leave the password field blank.

The safest passwords are at least 8 characters long, include both letters and numbers, and contain no words from a dictionary.

Password:

Type it again to confirm:

Important: Your password cannot be recovered. If you forget it, [More Info...](#)

[FAQ](#)

are at least eight characters long, include both letters and numbers, and contain no words from a dictionary. Passwords are particularly important if you are in an environment where other people have access to your computer, either physically or over a network. Do not give others your password because doing so would allow them to use your certificate to impersonate you.

Figure 19N

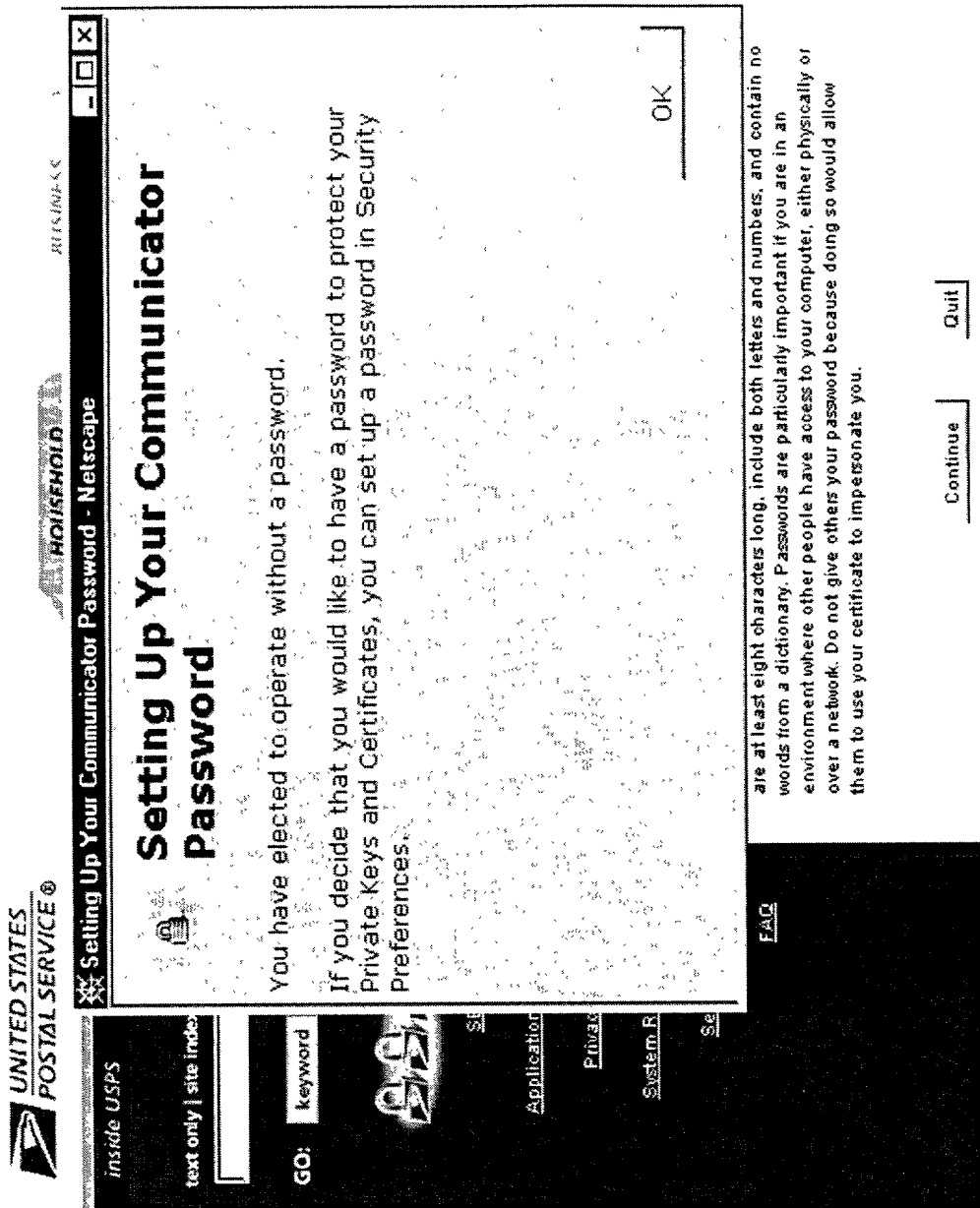


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SECURE ELECTRONIC MAILBOX

Process Update

STEP 1

Step 1: You Have Now Completed The Online Application Process

Step 2: In-Person Identity Validation Process


Your Secure Electronic Mailbox (SEM) is now established but will be in a temporary status (inactive) until you complete the in-person identity validation and pay the SEM fee. On Feb 16, 2000, we will mail your *Identity Validation Form* to your address. You can expect to receive it within three to four days. When you receive the form, take it to the post office designated on the form along with the two forms of personal identification you selected on your application. You must complete Step 2 by Mar 6, 2000, or your SEM will be void, and you will be required to restart the application process. Now, you are ready for Step 3.

Step 3: Emailbox Activation Process

In one to two days after you complete Step 2, go to usps.com and click the Activation Status link. If your SEM is ready for activation, you will be asked to provide your shared secret. Then, you will receive instructions on receiving your USPS Digital Certificate, which is required to activate your SEM.

Finish

Figure 19P



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SECURE ELECTRONIC MAILBOX

Electronic Mailbox Activation


STEP 3

Please enter your USPS email address

@sem.usps.com

Submit

Figure 19Q




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SECURE ELECTRONIC MAILBOX

Electronic Mailbox Activation


STEP 3

Welcome, John. Your mailbox account is ready for activation. Please enter your shared secret to begin the Digital Certificate download process. You must complete this process on the same computer that you used to complete Step 1 of the registration process and on which your private key is stored. Please note that this is currently the only computer with which you can access your Secure Electronic Mailbox.

Shared Secret:

Adjective Noun Verb

Figure 19R



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SECURE ELECTRONIC MAILBOX

Electronic Mailbox Activation

STEP 3

You must read and accept this [Certification Practice Statement](#) before accepting or using a Digital Certificate. Clicking the Accept button indicates that you agree to and will abide by all terms and conditions contained therein. Once you click Accept, please follow the Netscape instructions for accepting and downloading the Digital Certificate.

Figure 19S

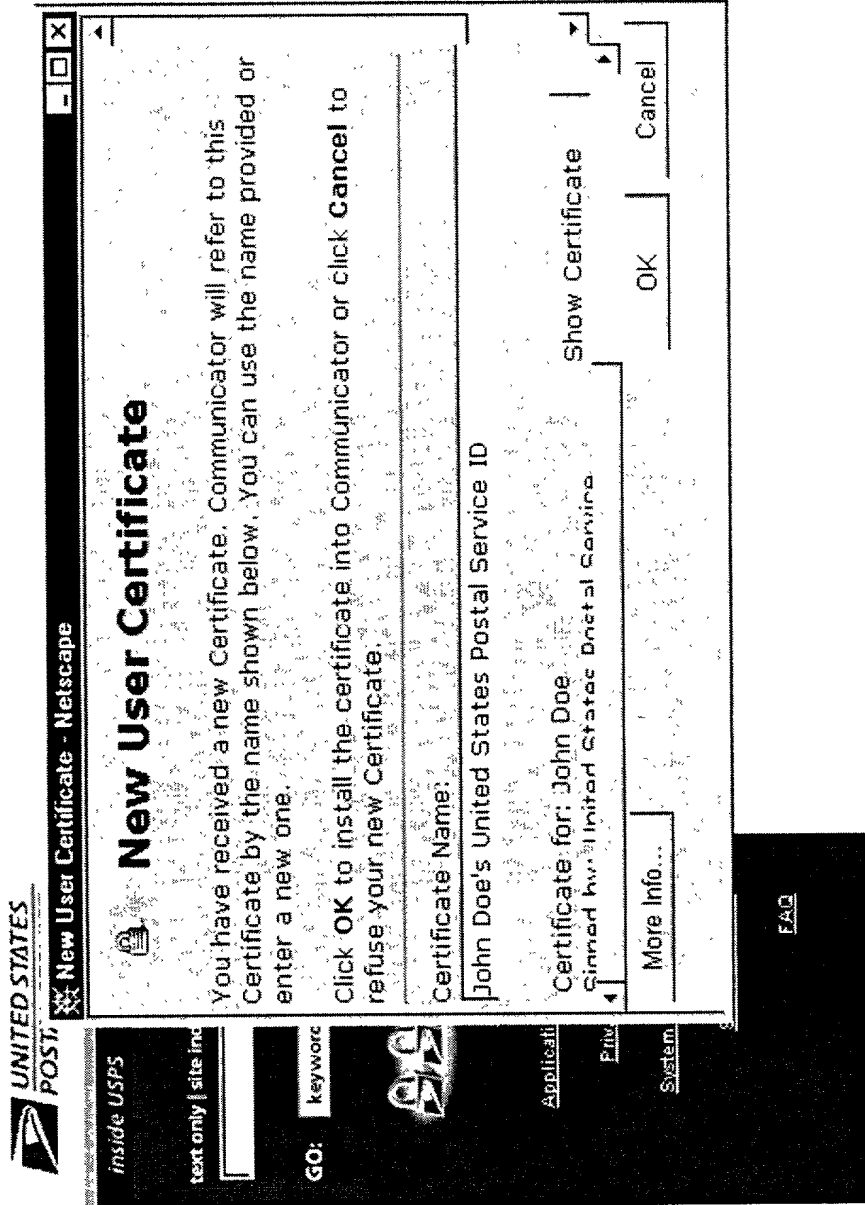


Figure 19T

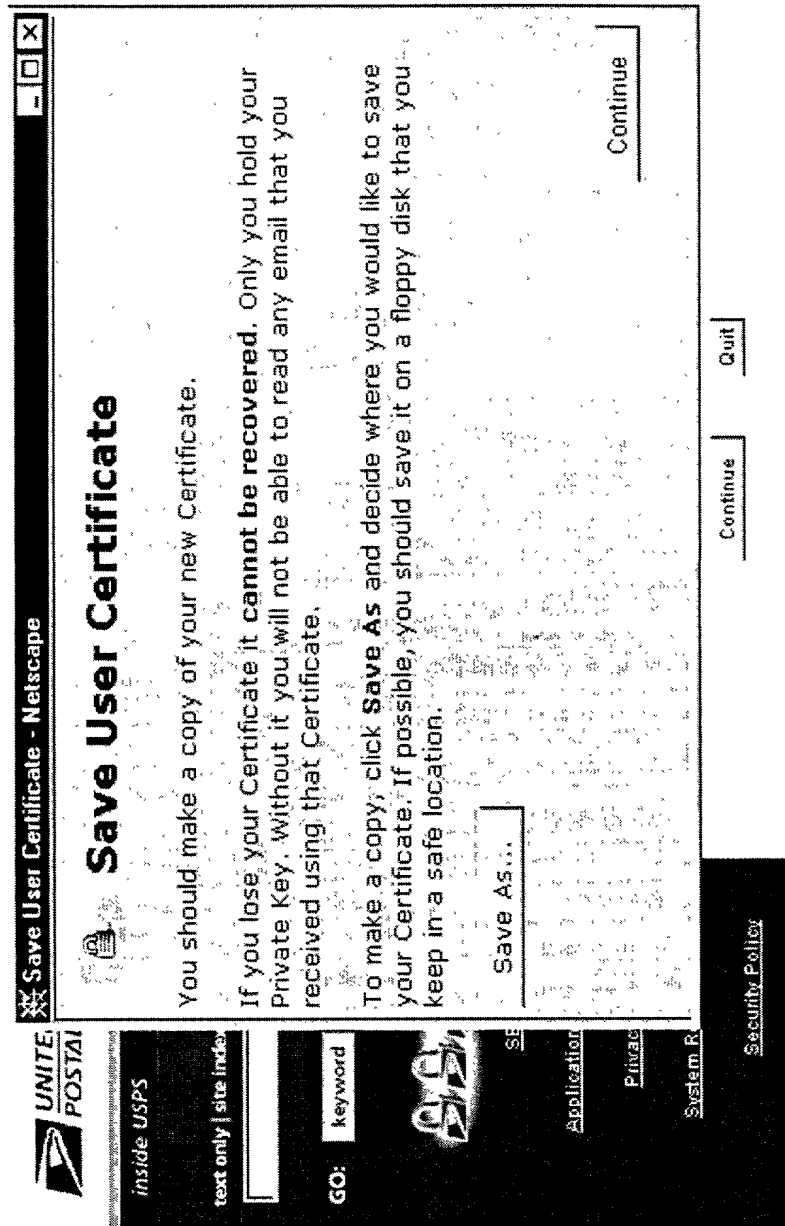



Figure 19U




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SECURE ELECTRONIC MAILBOX

Electronic Mailbox Activation


STEP 3

To verify that your Digital Certificate was properly installed in your browser, please perform the following steps:

1. Click on the Security icon on the toolbar, or from the Communicator menu, select Security Info then,
2. In the Security Info window, click the Yours option in the left-hand frame. If you do not see your Digital Certificate, please call a customer care agent at 1-800-344-7779.

If you have viewed and accepted the Digital Certificate, please click Continue.

Figure 19V



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SECURE ELECTRONIC MAILBOX

Electronic Mailbox Activation

Congratulations!

You have successfully downloaded your USPS Digital Certificate and the registration process for your Secure Electronic Mailbox is complete. Your input on the SEM registration process is very important to us. Please click Continue and complete a brief feedback form on the next page.

After you complete the form, click Go To Mailbox to view a nonfunctioning sample of the USPS SEM. Visiting the sample site will give you a good idea of the SEM's potential features and functions. Please note that this is not a functional site and many of the links are not operational.

[Continue](#)

Figure 19W

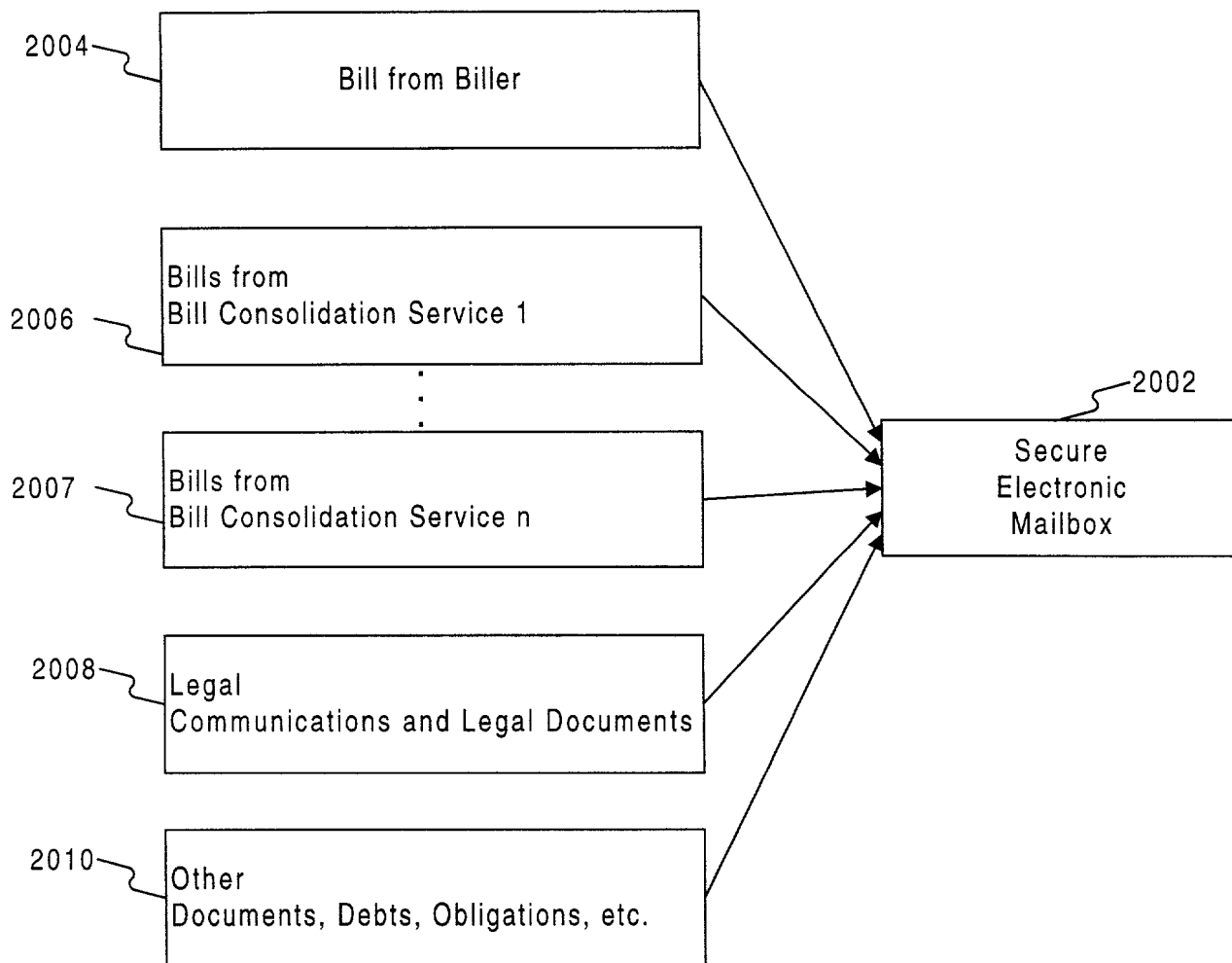


Figure 20

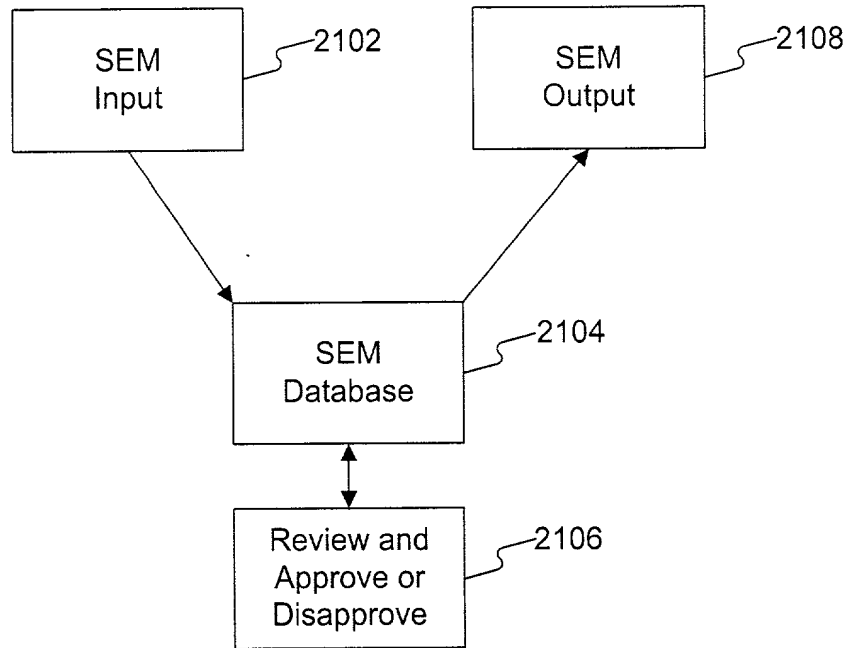


Figure 21

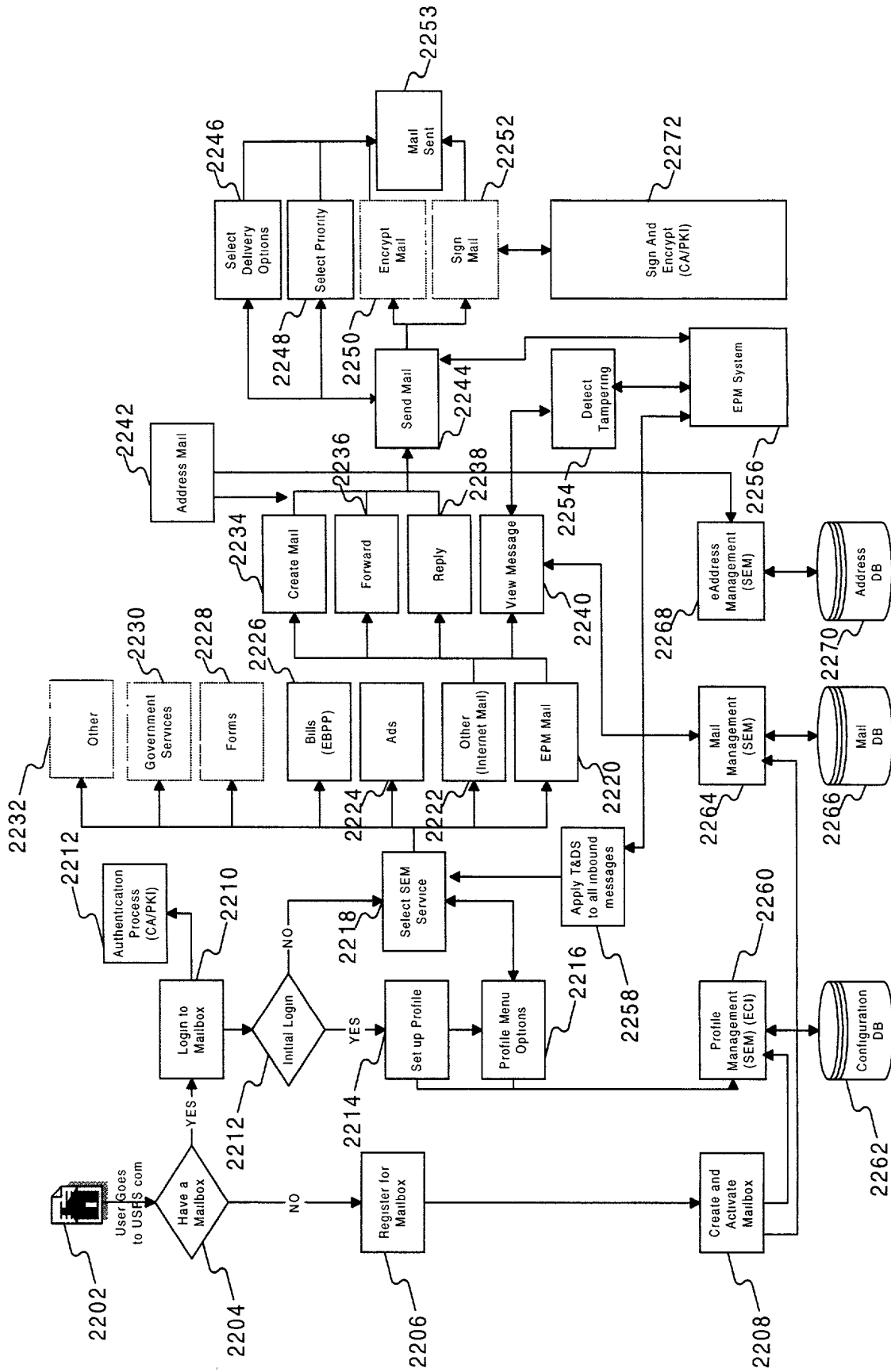


Figure 22

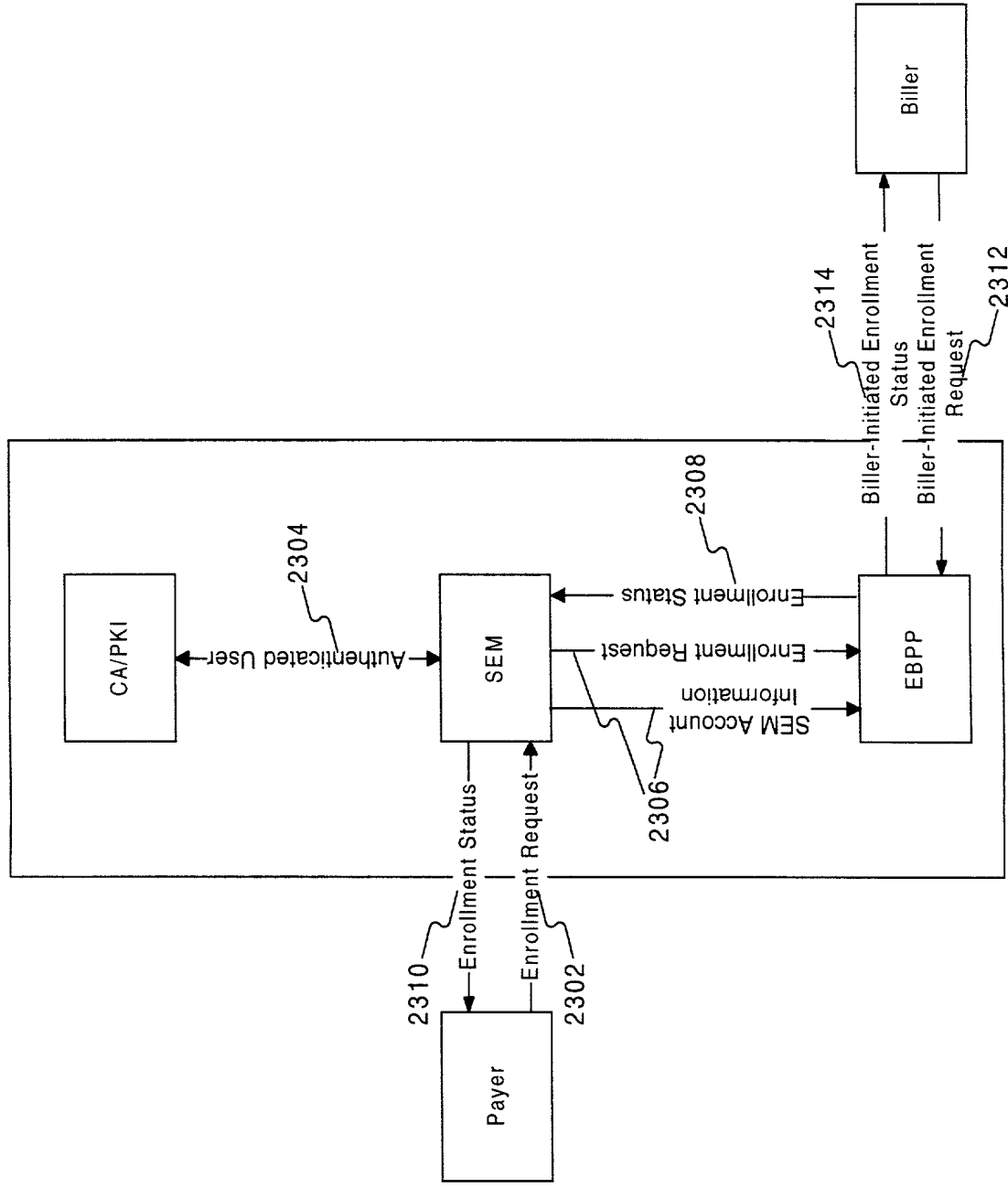


Figure 23

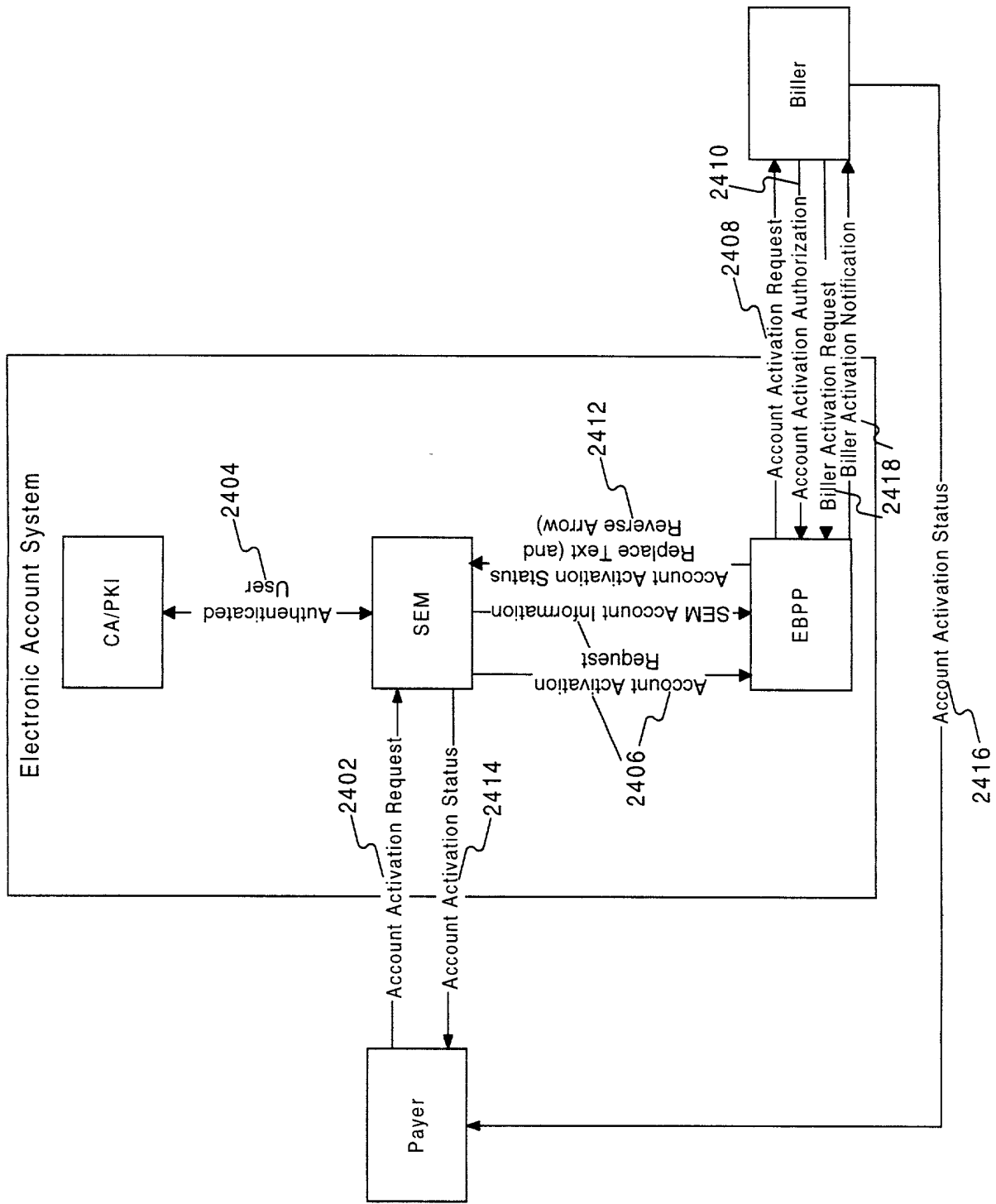


Figure 24

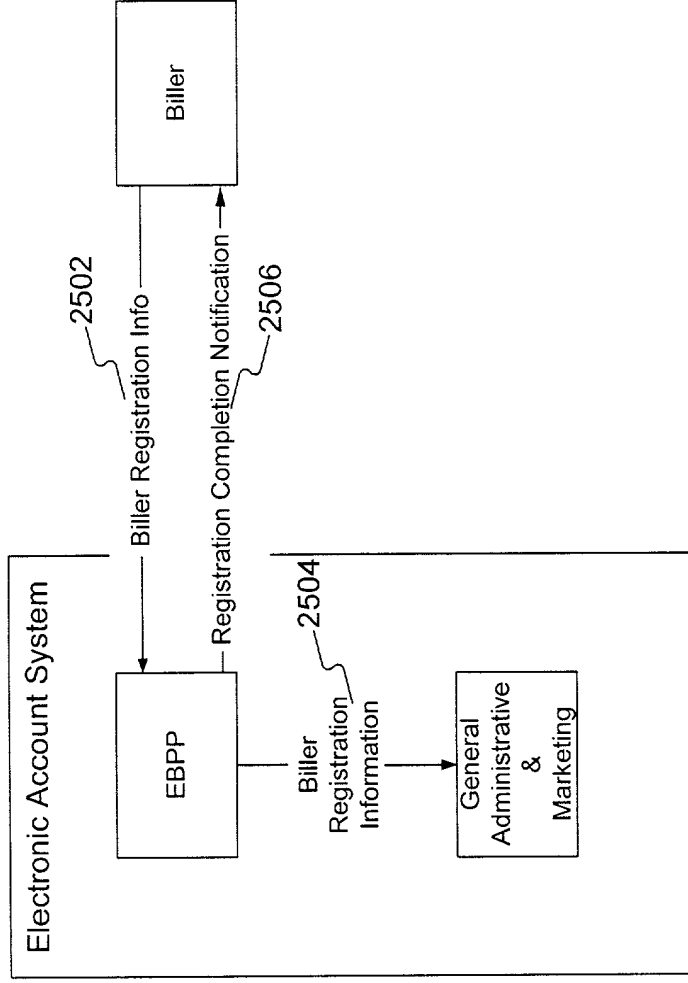


Figure 25

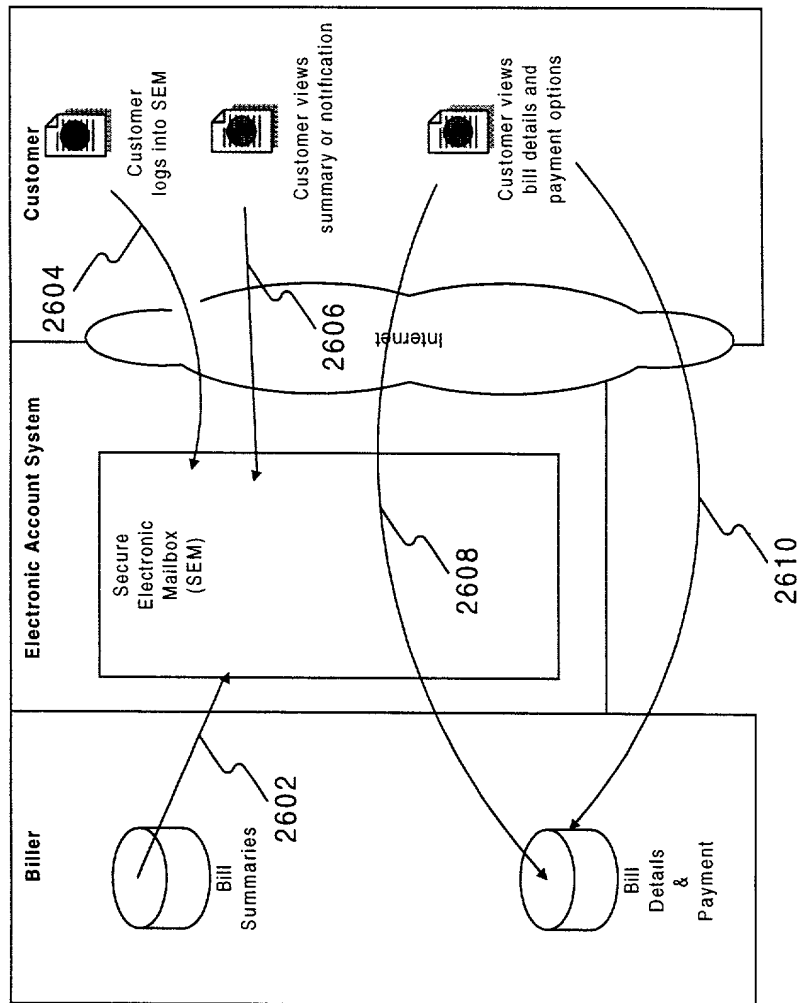


Figure 26

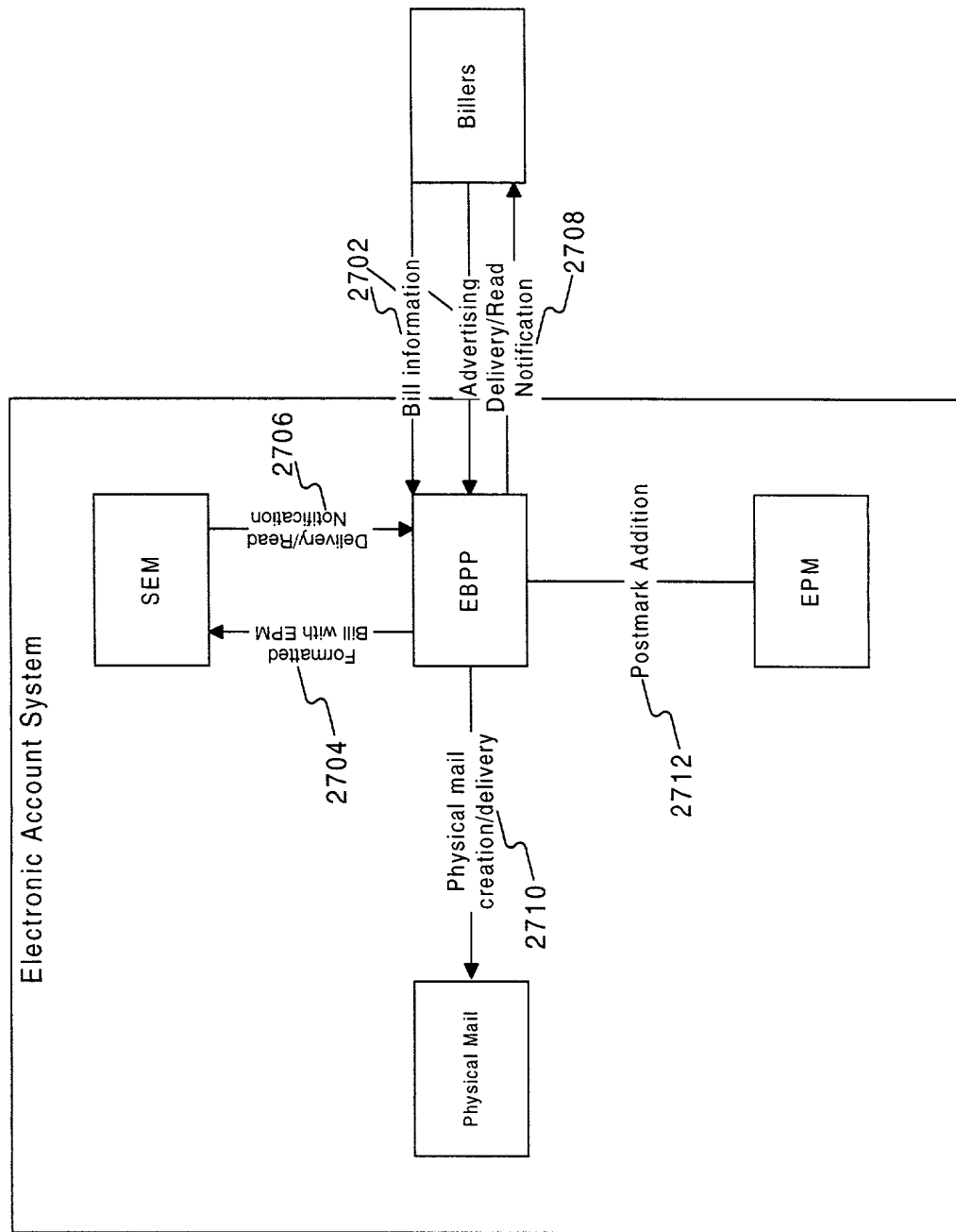


Figure 27

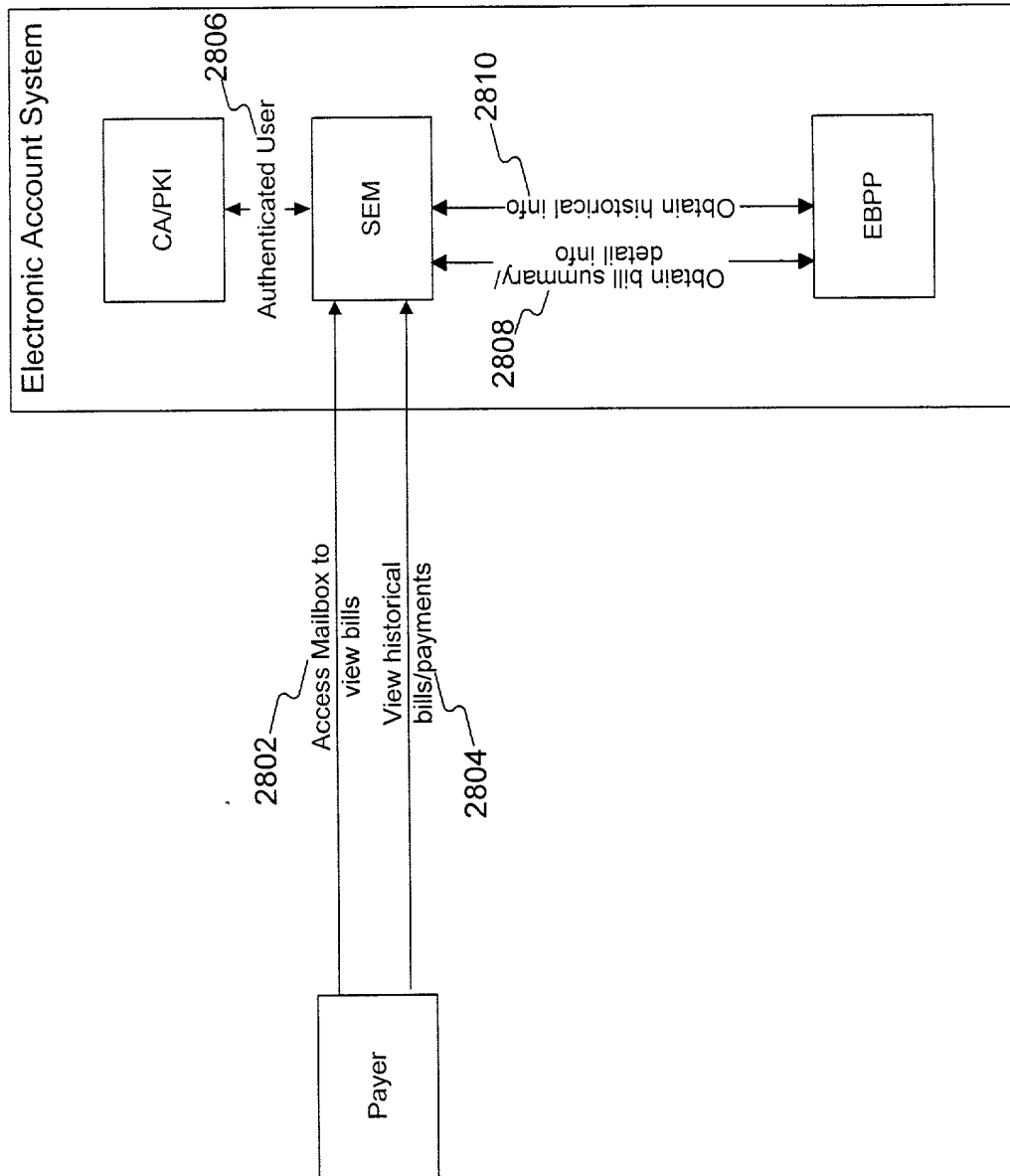


Figure 28

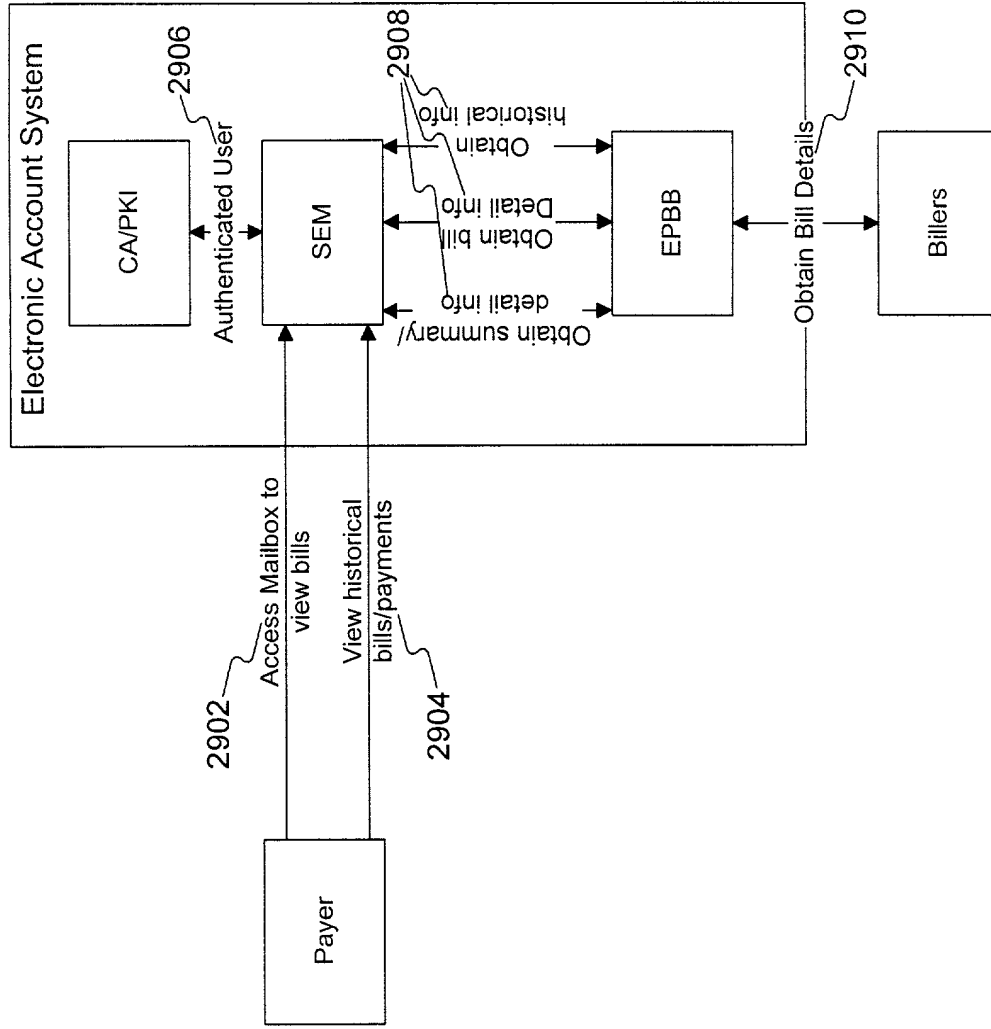


Figure 29

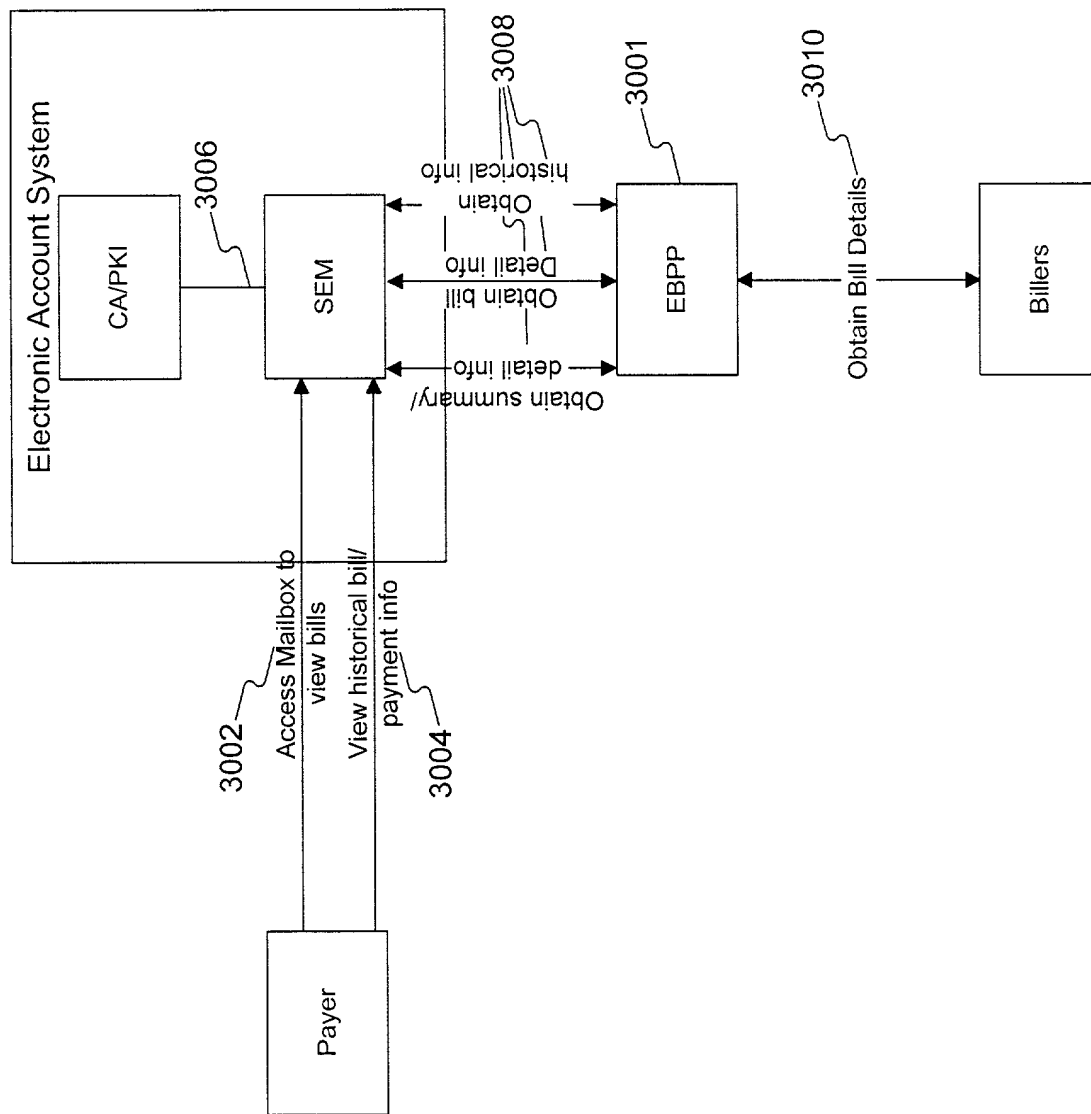


Figure 30

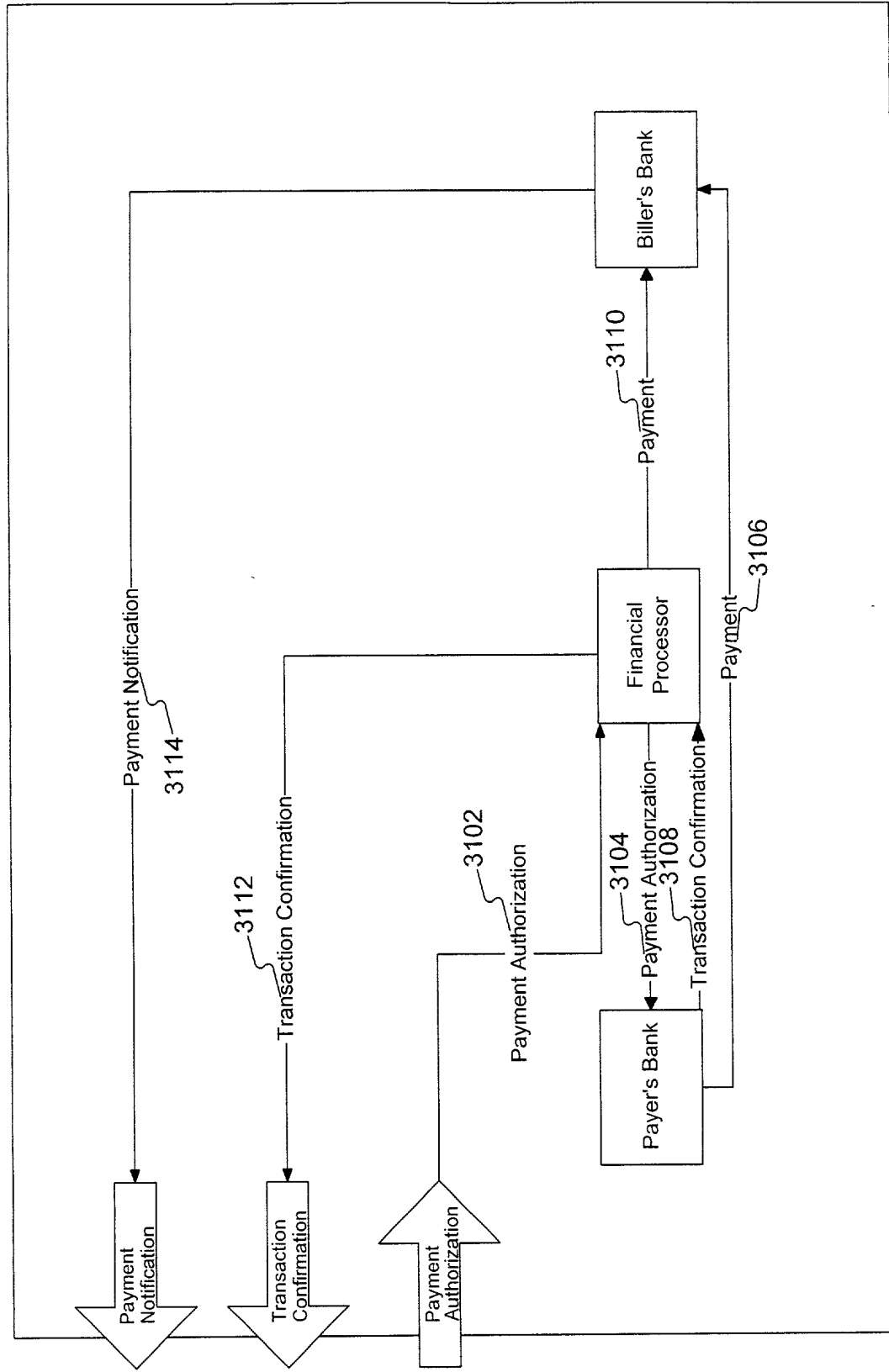


Figure 31

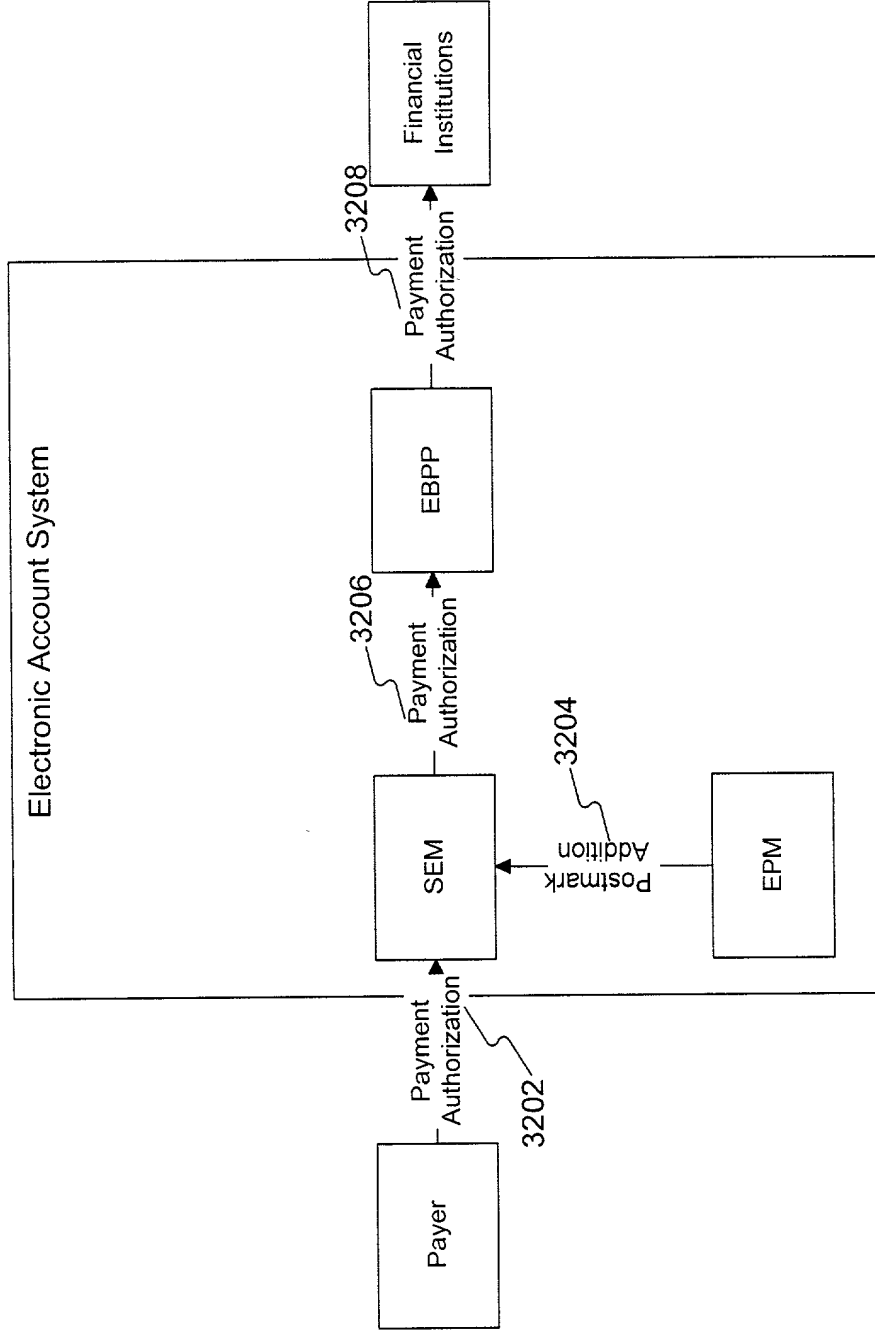


Figure 32

Bill Payment
(Outsourced EBPP Model)

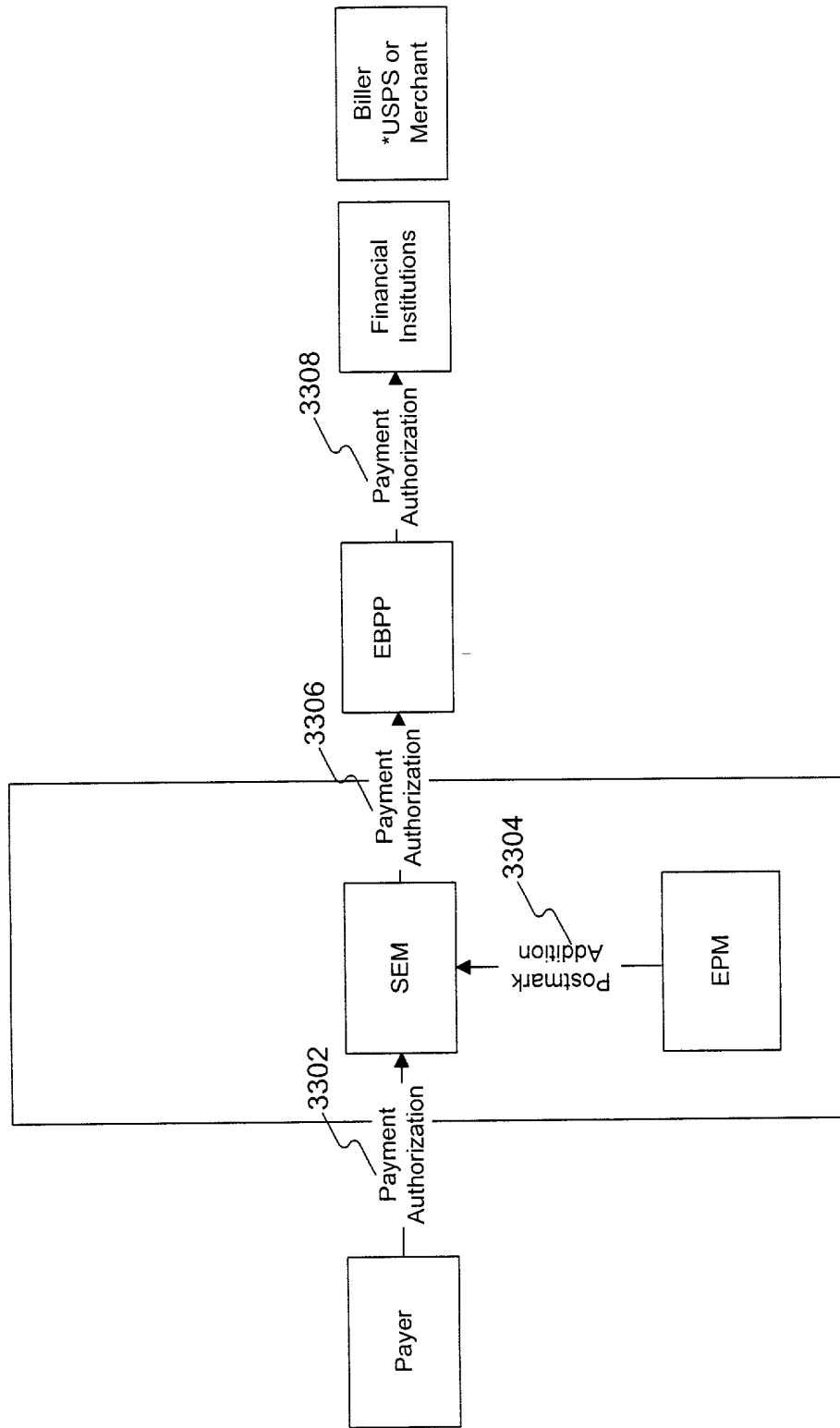


Figure 33

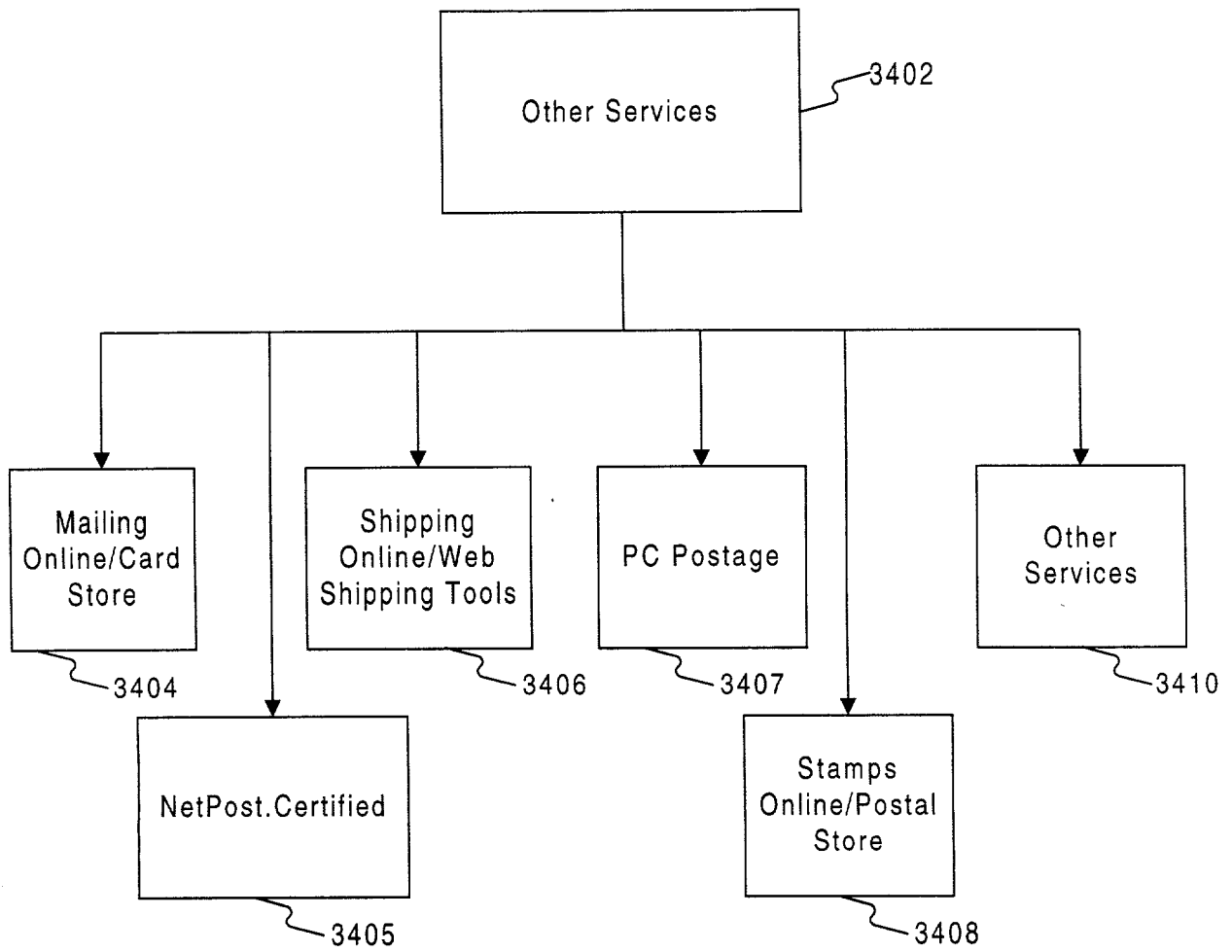


Figure 34

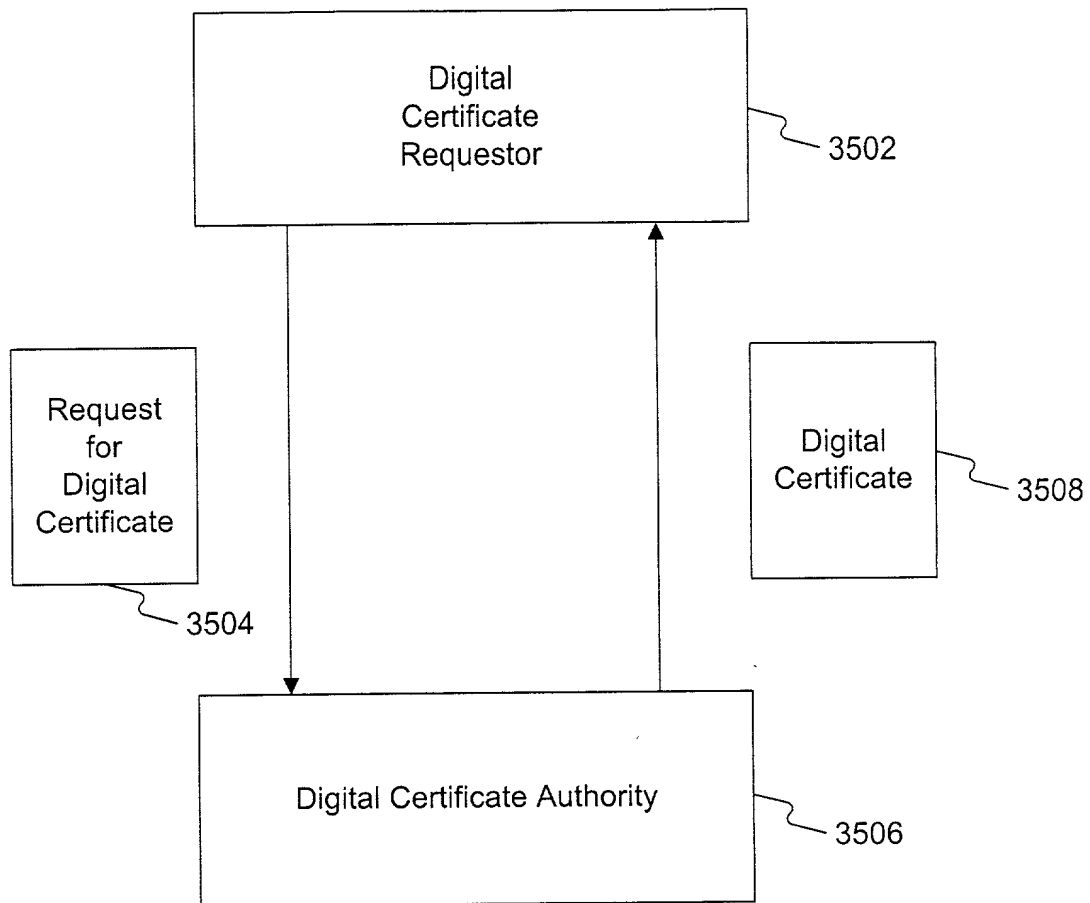


Figure 35

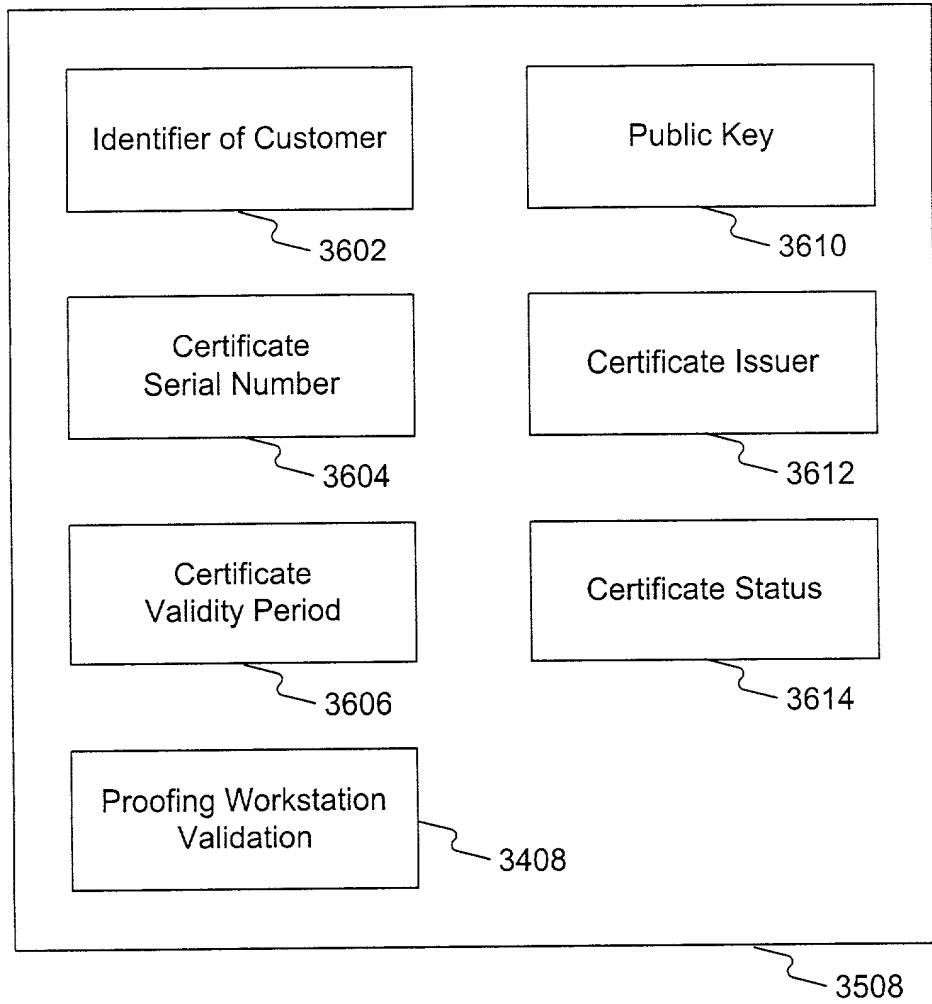


Figure 36

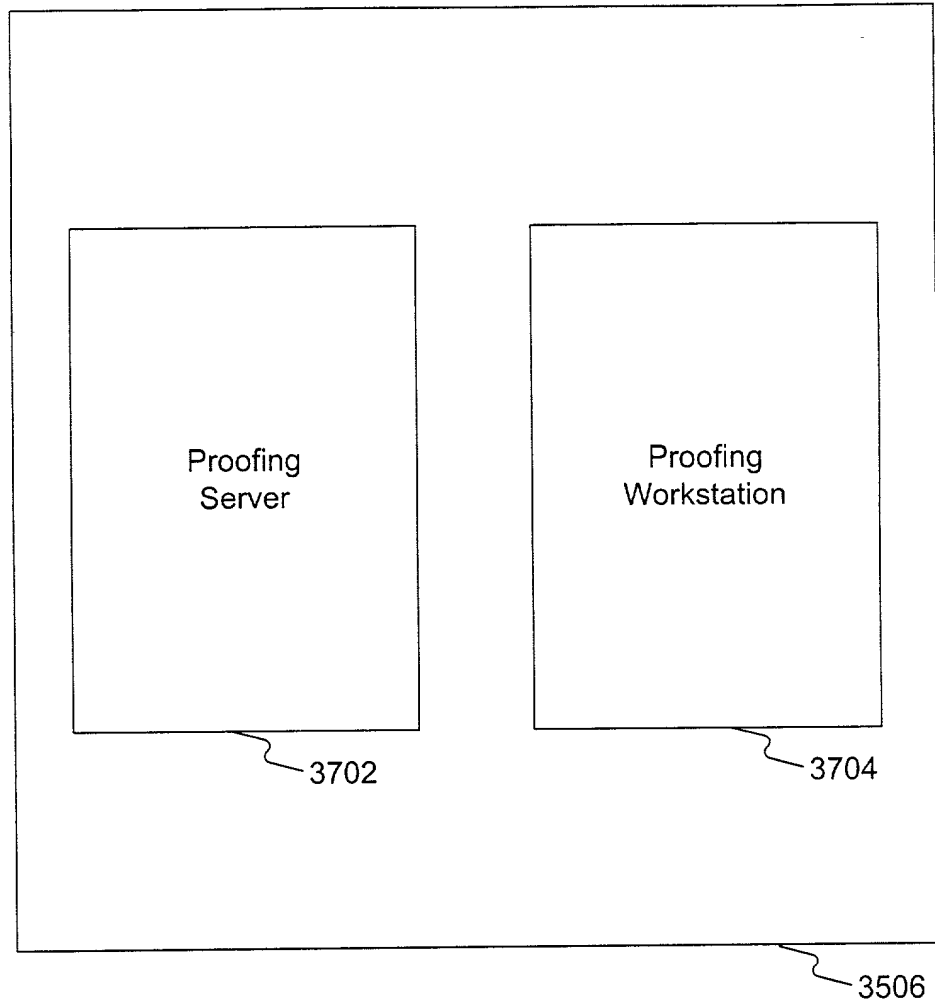


Figure 37

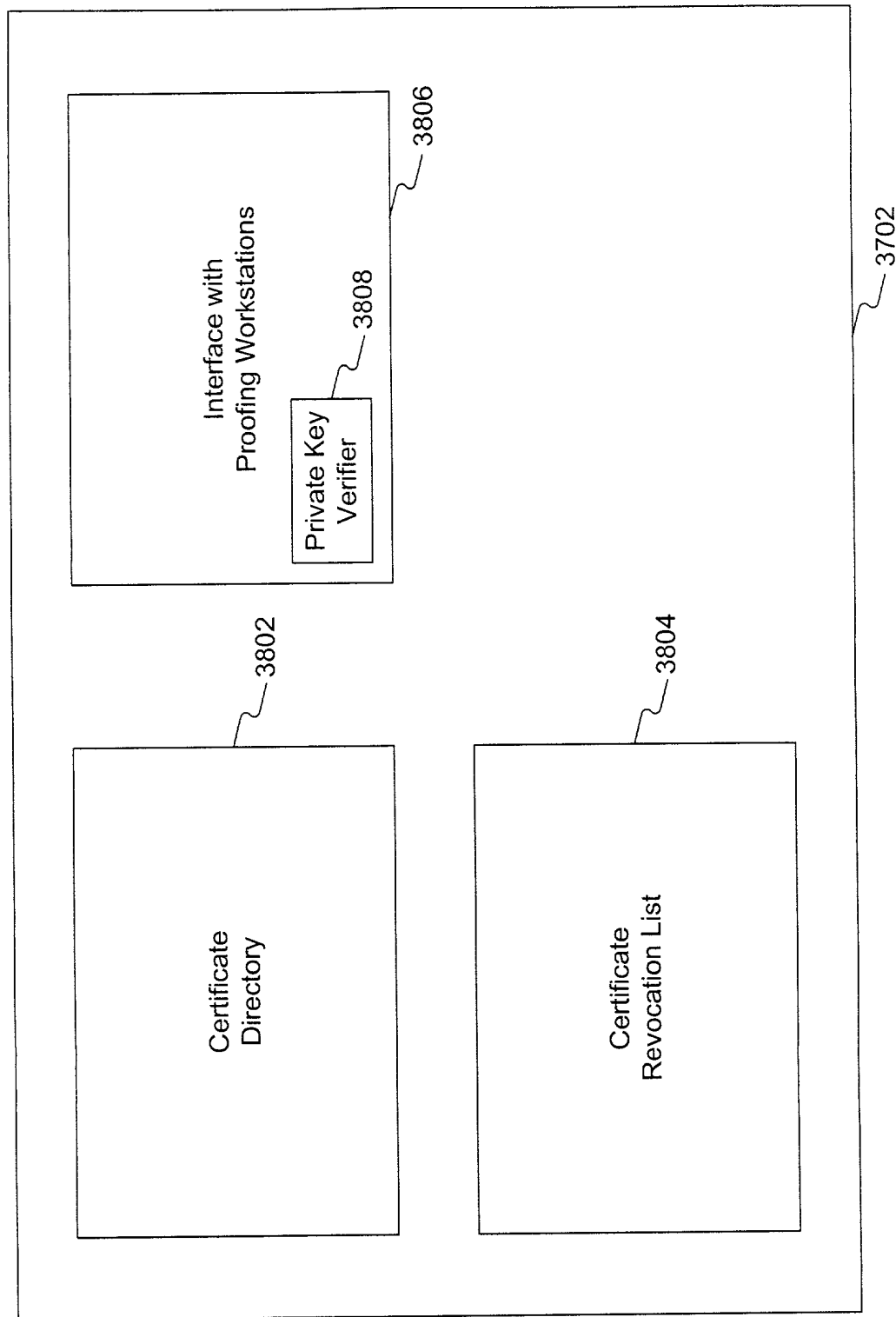


Fig. 38

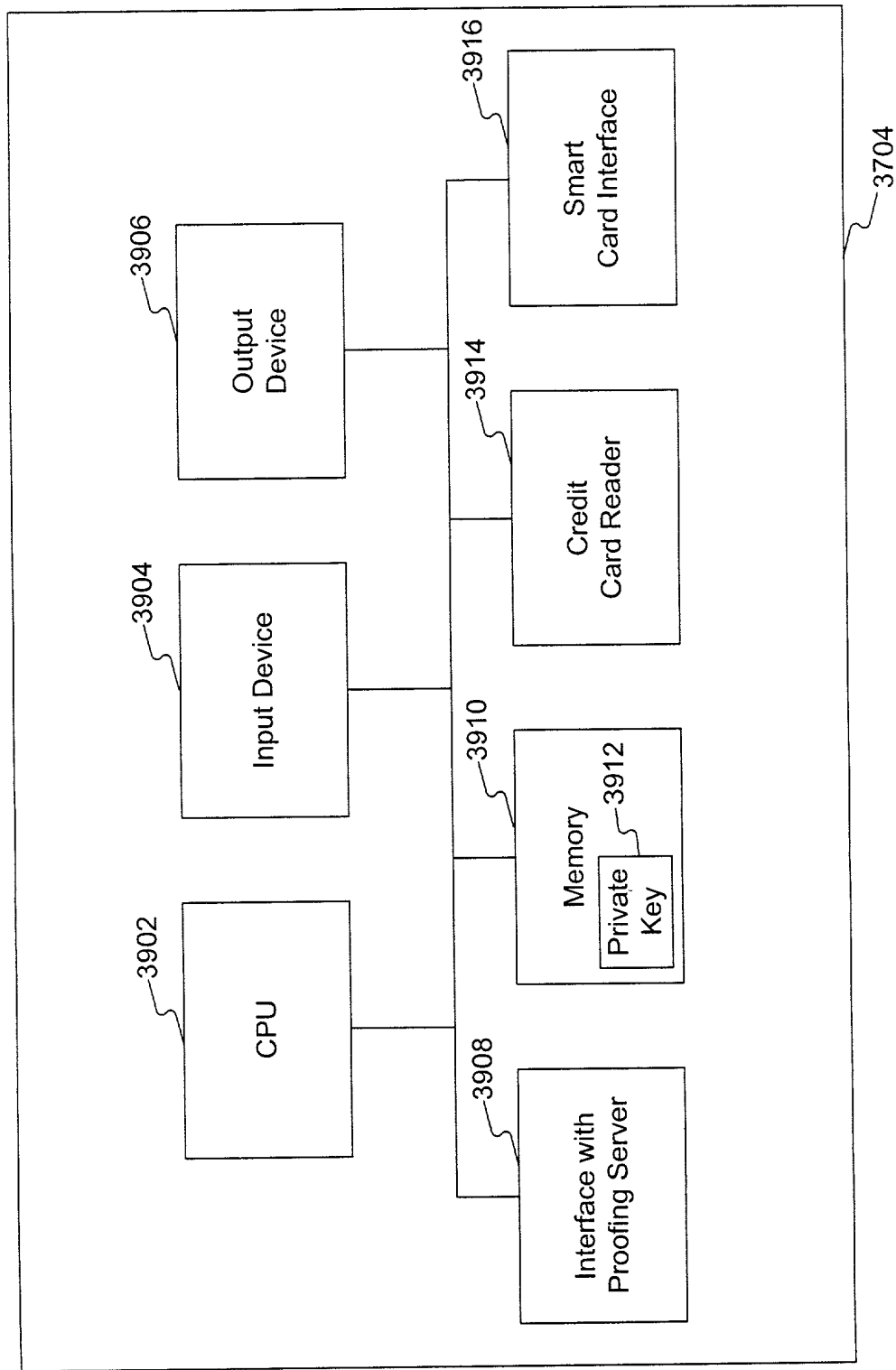


Fig. 39